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University of Maryland

Bulletin

Medical Alumni Association • School and Medical Center • Summer 2007, Volume 92, No. 1



The
Bicentennial
Celebration



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Bulletin

University of Maryland

Summer 2007



Maryland governor Martin O'Malley joins 1,300 alumni, faculty, staff, students, and friends at the bicentennial gala on May 18 (story on page 17).

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On the cover: Medical school dean E. Albert Reece, MD, PhD, MBA welcomes everyone to the bicentennial gala.

features

The John Beale Davidge Alliance Luncheon

More than 70 donors joined the medical school's major giving society or were upgraded to a new honors levels during the past year. This brought total membership to more than 750 since its founding 29 years ago.

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Celebrating 200 Years of Distinction: The Medical School Bicentennial Anniversary

More than 2,000 alumni, faculty, staff, students, and friends of the University of Maryland School of Medicine participated in the medical school's bicentennial celebration in May. Activities included pre-commencement convocation, reunion, donor recognition events, this year's annual Historical Clinicopathological Conference, and a gala at the Baltimore Convention Center attracting more than 1,300 people.

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To Boldly Go: Maryland's Department of Otorhinolaryngology-Head and Neck Surgery

In January 2005, Maryland appointed Scott Strome, MD, to head its new department of Otorhinolaryngology-Head and Neck Surgery. Since that time, the nationally recognized surgeon and researcher from the Mayo Clinic has expanded his faculty from six to 14 physicians. Their interests have grown to far exceed the standard treatments for ear infections, sinusitis, and tonsillitis.

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Recollections

The editorial board is proud to present Volume 92, Number 1 of the *Bulletin* magazine, the oldest medical alumni association magazine in the United States. In addition to serving as the medical school's primary communications link with alumni since 1916, it serves as a bridge connecting us to our past. This section of the magazine features snippets of past issues, offering a look back at our medical school 25, 50 & 75 years ago.

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Dean's Message



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs

The John Z. and Akiko K. Bowers
Distinguished Professor and Dean

The past and the future convened in the present during our once-in-a-lifetime bicentennial activities surrounding the commencement and reunion in May. From the clinicopathological conference to convocation, from the John Beale

Davidge Alliance luncheon to the student awards breakfast, and from graduation to the gala, it was an action-packed celebration of the nation's fifth oldest—and *oldest public*—medical school.

I was gratified to see so many alumni here on campus to attend reunion and commencement activities, and I was impressed by how far many of you traveled to get here. It was an honor and a pleasure to have the opportunity to greet so many of you. **Manuel Levin, '34**, the most senior-presiding alumnus at our celebration, is an inspiration to us all! **Lawrence Perlman, '37**, traveled all the way from Chicago to join classmate **James Frenkil, '37**, for their 70th medical school reunion. **Elizabeth Hosick, '66**, one of only a handful of women in her class, also traveled from Illinois for the dedication of the sophomore lecture hall in the Bressler Building which now bears her name. We are so grateful for her gift to refurbish the auditorium, as are the students who will benefit from her generosity. **Mel Sharoky, '76**, chair of our board of visitors, and wife Alexias served as co-chairs of our 2007 bicentennial gala. Their loyalty and commitment to our medical school is simply unparalleled.

This year's convocation was very, very special. Those of you who were

there know what I mean. Alumni from 70 classes were members of the platform party and their procession onto the stage was awe-inspiring. To have 70 classes represented—dating back to 1934—was a sensational and humbling tribute to the loyalty our alumni feel toward the school (their names and several photos are included on page 10). In addition, on the platform party were representatives from the four medical schools older than Maryland—Penn, Columbia, Harvard and Dartmouth—and Dr. Darrell Kirch, president of the Association of American Medical Colleges, represented the remaining 120 medical schools. I was indeed honored that they paid tribute to our important milestone by participating in our convocation exercises and other graduation activities.

Our convocation guest speaker was Dr. Abraham Verghese, a best-selling author and director of the center for

medical humanities and ethics at the University of Texas Health Sciences Center at San Antonio. He delivered a truly inspiring talk on the search for meaning in a medical life. **Philip Mackowiak, '70**, was also tapped by the students, and he delivered sometimes humorous and always thoughtful advice for the graduates as they transition from students to physicians.

This very special day ended with a gala celebration at the Baltimore Convention Center, where nearly 700 alumni reconnected, reminisced, laughed, and danced to Stevie V. and the Heart Attackers. Stevie V. is, of course, none other than **Stephen Valenti, '78**, who has a cardiology practice in Columbia, Maryland, and a passion for music. Playing with Steve at the gala were **Michael Ichniowski, '78**, **James Miller, '82**, and **Gregory Mitchell, '72**. We are most appreciative of the fact that Steve and his band waived their usual fee, a most generous gesture, which enabled us to apply even more of the gala proceeds to scholarships for our students.

A heartfelt thank you goes out to all of you who participated in any or all of our bicentennial graduation and reunion activities. As my first year at Maryland comes to a close, I can honestly say that I have been warmly welcomed, and I have truly enjoyed getting to know you. Many of you have said that you like hearing from me—in the *Bulletin* and through my open letters. But I like reading, too, so please contact me by e-mail or letter; or, better yet, stop in the next time you're on campus! 📧

recent events



Appreciation Night for Student Callers

The MAA treated 150 student volunteers who worked last fall's phonathon to a Davidge Hall picnic and Orioles baseball game on Monday April 23. Thanks to these volunteers and the alumni callers, this year's annual fund is expected to top a record \$700,000. Participants enjoyed a beautiful 70 degree evening with good food and drink, but the Orioles lost to the Oakland Athletics 6 to 5.



Phonathon volunteers, from left, included first year students Bonike Oloruntoba, Shereese Phillips, Shani Woolard, Treasure Walker, Gerald Gantt, Janelle Cooper, Lauren Minor, and Anselm Tintinur.

Heros Delivers Henderson Lecture

Roberto C. Heros, MD, co-chair of the department of neurosurgery at the University of Miami School of Medicine, was the 11th annual Henderson Visiting Professor on May 9. Heros' primary area of interest is cerebrovascular disease, and his presentation was entitled "Intracranial Dural AV Fistulas." The lectureship was established in 1996 by family and friends to honor the memory of **Charles M. Henderson, '57**.

Attending the event were Mrs. Barbree Henderson, widow of Dr. Henderson, and **Frederick W. Plugge IV, '57**, classmate, friend, and the chief supporter of the Henderson Fund.



Mrs. Barbree Henderson, widow of Dr. Henderson; Robert C. Heros, MD, Frederick W. Plugge IV, '57, classmate of Dr. Henderson; and Howard Eisenberg, MD, chairman of the department of neurosurgery.

Hosick Lecture Hall Dedication

Thanks to a gift from a generous alumna, the Bressler Building's sophomore lecture hall is getting a face lift and a name worthy of its inherent value. **Elizabeth C. Hosick, '66**, a retired anesthesiologist, announced the gift earlier this year. It will provide for furnishings capable of accommodating laptop computers and all the latest advances in wireless technology, similar to those installed last year into the Taylor Lecture Hall right next door. Hosick was joined at the May 17 dedication by four classmates including

professor **Gary Plotnick, Nina Rawlings, Sandra Salan, and Lloyd Kramer**. One of only a handful of female students in her class, Hosick now relishes the fact that the 11 most recently graduated classes consist of women majorities.

"I've often been asked how I was treated as a woman in medicine," Dr. Hosick admits. "And I have to say, I was treated pretty darn well."

She credits her education for her success in the field. "The University of Maryland took a chance on a young woman from the Midwest," said the Kalamazoo, Mich., native. "Because of this opportunity, I spent 30 years teaching med students and residents; I spent 16 years as medical director of ambulatory surgery at a 200-bed hospital; and I was chair of anesthesiology for 12 years in a 200-person, multi-specialty service. For this, University of Maryland, I thank you."



Attending the Hosick Hall dedication with Elizabeth C. Hosick, '66 (center) were classmates Lloyd Kramer, Gary Plotnick, Sandra Salan, and Nina Rawlings.

recent events



Judith Hicks Stiehm, PhD, Cal Ripken Jr., and Bob Arnot, MD

Ripken Headlines Bicentennial Leadership Seminar; Students Follow

Cal Ripken Jr., was the headliner for the second of three lectures being presented at the Hippodrome Theatre this year as part of the medical school's bicentennial celebration. The April 26 event was entitled "The Enduring Power of Leadership," with the presenters speaking on the qualities they believe make good leaders. Ripken was joined by television correspondent Bob Arnot, MD, and professor Judith Hicks Stiehm, PhD. The following day more than 600 medical students took a day off from their studies to provide service to the Baltimore community.

Arnot shared his experiences out in the field, exciting tales of the enlightening but often dangerous stories he's presented from such war-torn locales as the Darfur region of Sudan and Iraq. The common theme of these stories was how it was often the most ordinary of people who stepped in to save the day when he needed it most. He encouraged the audience to strive to be everyday heroes like this in their own lives.

Stiehm also spoke of ordinary people doing extraordinary things. Her presentation was on the 12 women who have won the Nobel Peace Prize—women who were happily pursuing careers or religious vocations or enjoying life as wives and mothers when the strife in the world around them forced them out of their comfort zones and into history.

Ripken will become an even more enduring part of history when he is inducted into the Baseball Hall of Fame on July 29. In his remarks, he spoke of the eight traits he believes led to his success, both in baseball and as a husband and father. The importance of family came through often in his speech, which was filled with stories of his father and the lessons Cal Sr. imparted, as well as frequent mentions of son Ryan and the ways—both good and bad—in which he reminds Cal of himself.

Medical students fanned out across Baltimore on April 27 to help others as part of a student services day at the medical school. Students cleaned and painted schools, helped build a house for Habitat for Humanity, gave presentations at the Maryland Science Center, and conducted a

Mini-Med School for youngsters interested in the health field.

"We're really delighted," raved Patti Rosso, a teacher for Sollers Point Technical High School's allied health program, who brought a group of juniors to Mini-Med School. "It's been a fun time for the kids. Some of them talk of becoming doctors, but I don't think they had a real idea of what it entailed; so being able to talk with the different students and learning about their med school experiences has been very worthwhile."

The biggest service site of the day, the Maryland Science Center, had 75 students manning a variety of kid-friendly presentations.

After months of intense study, the student service day was a big change of pace for the medical students, but one they greatly appreciated. "It's an opportunity to share our excitement for science," says fourth year medical student Michelle Cohen. Having organized the Science Center outreach, Cohen hopes the experience will encourage more young people to consider careers in science or medicine.

The special day was presented as an event for the medical school's bicentennial year, but many of those involved hope to see it become an annual tradition. "The students are very enthusiastic about this," said **Joseph Martinez, '98**, assistant dean for student affairs. "I think it would be difficult to find a day every year when we could cancel classes; so everyone could go volunteer, but I'd like to see this continue on some scale in the future." ■



Students are out and about during Student Service Day

Fraser-Liggett to Head New Institute for Genome Sciences

The medical school has named preeminent genome scientist and microbiologist Claire M. Fraser-Liggett, PhD, to head its institute for genome sciences—a new research enterprise dedicated to the application of genome sciences for the advancement of human health. This new institute will be located at the University of Maryland, Baltimore (UMB) BioPark, a biomedical research park on UMB's expanding campus.

Fraser-Liggett comes to the medical school from The Institute for Genomic Research (TIGR) in Rockville, Md., where she has served as president and director since 1998. During her tenure at TIGR, federal funding to the organization tripled to \$60 million per year. At TIGR, Fraser-Liggett led research teams that sequenced the genomes of many microbial organisms and helped to initiate the era of comparative genomics. She has been the most highly cited scientist in the field of microbiology for the past 10 years.

"Dr. Fraser-Liggett is a true pioneer in the effort to sequence and analyze the genomes of a large number of organisms, and we are thrilled to have her world-class expertise at the University of Maryland," says medical school dean, E. Albert Reece, MD, PhD, MBA. "Dr. Fraser-Liggett is expected to bring a team of scientists and staff members with her. This major recruitment initiative will fuel the expansion of genomic research at the medical school."

As an expert in the field of microbial genomics, one aspect of Fraser-Liggett's current research is to understand the communities of bacteria in the human body, especially the microorganisms that reside in the digestive tract. These bacterial cells far



Claire M. Fraser-Liggett, PhD

outnumber the human cells that make up our bodies and are vital to good health. By comparing DNA sequences from these microbes, researchers have already determined the biological function of some beneficial bacteria. The research could lead to new ways to promote health and novel vaccines to prevent disease.

"I am extremely excited about the opportunity to build a new genomics institute within the medical school," says Fraser-Liggett. "The medical school has a rich history in medical and graduate education and an outstanding faculty in both basic and clinical research, many of whom are current or past collaborators with TIGR."

Fraser-Liggett has overseen the genome sequencing of important human pathogens, including bacterial infections that cause cholera and anthrax, and parasitic infections responsible for malaria and other devastating diseases in the developing world. Her work also includes the

study of influenza and other viruses. These studies have provided a strong foundation for the development of new diagnostics, therapeutics and vaccines. At Maryland, Fraser-Liggett will build on her impressive body of work while collaborating with physician-scientists in an environment that fosters translational medicine.

"One of the most important challenges over the next two decades will be integrating new insights from the past 10 years of genomics studies into the clinical environment to impact human health," says Fraser-Liggett. "There is no better place to be working toward these goals than in a large academic medical center like this one."

Fraser-Liggett has been continuously supported by federal funding, including the National Institutes of Health (NIH). She currently serves on the National Science Advisory Board for Biosecurity and the National Research Council's Committee on Metagenomics. She is a member of the editorial boards of *The Journal of Biological Chemistry* and *The Journal of Bacteriology*. She has published more than 220 articles in scientific journals and is a reviewer for nine journals. ■

Contributors to News & Advances include:

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Bill Seiler
Karen Warmkessel

Photographs by Mark Teske
& Richard Lippenholz

John Beale Davidge Alliance

2007



Barbara and John Niziol, '72

New Donors Welcomed into Alliance

Again in 2007, the Hippodrome Theatre in downtown Baltimore was the site of the annual John Beale Davidge Alliance Luncheon, which this year celebrated its 29th anniversary as the medical school's society for major donors. This year more than 70 individuals were recognized for either joining the Alliance with a minimum \$10,000 gift or for upgrading to a higher recognition level within the society. The event is co-sponsored by the Medical Alumni Association and University of Maryland School of Medicine. The Alliance now boasts more than 750 members.

Elm Society New Members

Alumni

Daniel B. Lemen, '45
Guy K. Driggs, '46
Edward W. Stevenson, '49
Howard N. Weeks, '52
John F. Hartman, '54
Paul A. Reeder Jr., '61
Raymond D. Bahr, '62
Bernard S. Karpers, '62
John C. Dumler Jr., '65
William D. Ertag, '66
Stuart S. Lessans, '67
Howard Semins, '68
Mark M. Applefeld, '69
John P. Caulfield, '70
Brian J. Winter, '72
Celeste L. Woodward, '72
Ira M. Stone, '73
George E. Groleau, '82
Ira L. Fedder, '86
Stephen L. Houff, '87
G. Michael Maresca, '87
Wing C. Chau, '89
Stephen F. Hatem, '89
Andrew W. Morton, '97

Physical Therapy Graduates

Jon C. Waxham, '96
Thomas W. Yates, '96

Faculty

Dr. Claudia Baquet
Dr. Christopher T. Bever Jr.
Drs. Paul S. Fishman & Elizabeth Barry

Friends

Mr. Craig A. & Ms. Susan Coda Grube

Ms Julianna Hines
Ms. Elise M Janthey
Mr. Thomas M. Li
Mr. Stanley J. Marcuss
Mr. Hugh P. McCormick III
Dr. James E. & Mrs. Susan O. McNamee
Mr. Dennis Narango
Mr. John H. Park & Ms. Jennifer I. Chu
Mr. Richard C. Smith

Silver Circle

Alumni

Gene A. Croce, '41
William A. Holbrook, '45
Robert Berkow, '53
Paul K. Hanashiro, '57
Salvatore R. Donohue, '64 & Edith M. Donohue
Charles I. Weiner, '70
Jeffrey C. Blum, '73
Robert J. Beach, '75
George M. Boyer, '83
Donna L. Parker, '86
Nevins W. Todd III, '86

Physical Therapy Graduates

Jane S. Satterfield, '64

Faculty

Dr. Carl Mansfield
Dr. Mary M. Rodgers
Drs. David & Ann Zimrin

Friends

Dr. Grafton R. Brown
Ms. Elaine S. Mintzes

1807 Circle

Alumni

Mortimer D. Abrashkin, '32
Vernon M. Gelhaus, '55
Frank R. Nataro, '55
Selina Balco Baumgardner, '57
George A. Lentz, '57
George R. Baumgardner, '58
Frank R. Greene, '58
Morton M. Mower, '59
Nathan Stofberg, '60
Elizabeth C. Hosick, '66
James W. Spence, '66
Bert F. Morton, '68
Barry H. Friedman, '69 & Marsha Lee Friedman
Melvin Sharoky, '76
Elizabeth M. Kingsley, '78
Stephen A. Valenti, '78
Arthur F. Woodward Jr., '79
Erik, B. Young, '79 & Joyce Young

Faculty

Dr. Robert A. Barish
Drs. William J. Weiner & Lisa M. Shulman

Friends

Adalman-Goodwin Foundation
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Mr. Joseph & Mrs. Ann Farda
Mr. Carl T. Julio
Mr. Hugh P. McCormick Jr.
M. Mark Mendel, Esq.
Mr. Martin J. & Mrs. Sharon Smith
Ms. Margaret S. Wu



Frank Calia, MD, chairman of the department of medicine, with wife Elizabeth and Israel Weiner, '53.

Did we take your photograph?

Several hundred photographs from our May activities are available on the MAA website: www.medicalalumni.org Please visit our site to copy your favorites.

John Beale Davidge Alliance John Beale Davidge Alliance



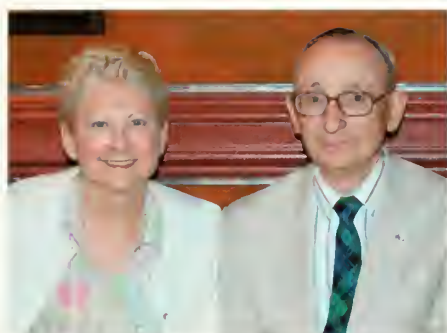
Protogoras Ourchis, '83, and wife Patricia



John Rowell, '67, wife Lynn, JBDA founding member H. Leonard Warren, '38, and wife Margie



New York Society members Kurt and Barbara Kurper, '62



Patricia and Wilson Heefner, '60



Lawrence Perlman, '37, with classmate James Frenkel, '37, and Perlman's daughter Susan.



Alan Malouf, '85, and Theodore Kim, '86



Paul Hanashiro, '57, welcomed into the Snow Circle by MAA president Alice B. Heisler, '63, and SOM dean E. Albert Rees, '60, Ph.D., MBA



New Elm Society members Patricia and Brian Winter, '72

The Inaugural Scholarships & Awards Breakfast

Nearly 200 students, faculty, alumni, and friends attended the inaugural Scholarships & Awards Breakfast on Thursday, May 17. In recent years, departmental awards and other prizes were announced and awarded during the pre-commencement convocation ceremony. But with a burgeoning list of prizes and a desire of all 26 departments to recognize excellence among the graduating class, administrators agreed that this segment of pre-commencement was worthy of its own event. As a result, faculty and alumni were afforded the opportunity to visit with the award winners in a more casual setting. This year's event was held in the Grand Ballroom of the Marriott Inner Harbor Hotel.

2007 Award Recipients

Dean's Award for Excellence in Research

Michael H. Kwon

Dr. James and Carolyn Frenkil Award
Audrey O. Segal

Department Awards

A. Bradley Gaither Memorial Award for Excellence in Genitourinary Surgery

Mark S. Shimko

Abraham Lilienfeld Award for Excellence in Epidemiology & Biostatistics

Anne P. Spillane

American Academy of Neurology Medical Student Prize for Excellence in Neurology

Adelene E. Jann

C. Jellef Carr Award for Excellence in Pharmacology

Gary T. Schwartzbauer

Charles L. Wisseman Jr., Award for Excellence in Microbiology and Immunology

Gary T. Schwartzbauer

Edward J. Kowalewski Award for Excellence in Education and Training in Family Medicine

Craig D. Sillick

Elijah Adams Award for Excellence in Biological Chemistry

Owen C. Thomas

Eugene B. Brody Award for Excellence in Psychotherapy

Jeremy M. Doniger

Jeremy M. Wilkinson

Eugene Sydney Bereston Award for Excellence in Dermatology

Michael D. Gober

Francis Donald Prize for Excellence in Pathology

Jennifer M. Reese

Giuseppe Inesi, MD, PhD Award in Cell and Molecular Biology

Audrey O. Segal

Hans R. Wilhelmsen Prize for Outstanding Achievement in Surgery

Joseph R. Scalea

Harlan I. Firminger, MD Student Prize in Pathology

Cedric C. Regelin

I. Earl Pass Memorial Award for Exceptional Proficiency in Internal Medicine

Audrey O. Segal



Gary Schwartzbauer, '07, recipient of five departmental awards, brings his son with him to receive the C. Jellef Carr Award for excellence in pharmacology, presented by chairman Edson X. Albuquerque, MD, PhD.

J. Edmund Bradley Award for Excellence in Pediatrics
Paula Max-Wright

Jacob Finesinger Award for Excellence in Psychiatry
Zaakir K. Yoonas

Jeremy Hallisey Award for Compassion and Humanistic Qualities in Anesthesiology
Nana D. Benneh

Joseph E. Whitley Award for Academic Excellence in Radiology
Tara A. Morgan

Kenneth L. Malinow Award for Excellence in Psychiatry
Melanie V. Rowson

Leonard M. Hummel Memorial Award for Excellence in Internal Medicine
Scott D. Sherr



Michael D. Gober, '07 recipient of the Eugene Sydney Bereston Award for Excellence in Dermatology, receives congratulations from Dean Reese, with chair Anthony A. Gaspari, MD, looking on.



Richelle Medford, '07, recipient of the Louis Harnman Douglass Award for excellence in obstetrics and gynecology, with chairman Hugh E. Mighty, '82.

Louis Harriman Douglass Award for Excellence in Obstetrics and Gynecology
Richelle N. Medford

Louis, Ida, and Samuel Cohen Award for Personal Attributes of Scholarship, Ability, and Compassion for Patients
Tiffany L. Morton

Marshall L. Rennels Award for Excellence in Neuroscience
Gary T. Schwartzbauer

Martin Helrich Prize for Excellence in Anesthesiology
Alexander I. Kim

Milton S. Sacks Award in Hematology
David Wing-Hang Lam

Robley Dunglison Award for Excellence in Preventive Medicine
Suna C. Seo

Sheldon E. Greisman Prize in Medical Physiology
Zaakir K. Yoonas

The Society for Academic Emergency Medicine Award for Excellence in Emergency Medicine
Alisa M. Gibson

The William Gray Award in Otorhinolaryngology–Head and Neck Surgery
Gary T. Schwartzbauer

Theodore E. Woodward Award in Physical Diagnosis
Paula M. Yellon

Theodore E. Woodward Prize in Internal Medicine
Abigail A. Lenhart



Class of 2007 recipients included Joseph Scalea (Hans R. Wilhelmisen Prize in Surgery), Adriana Jones (Wayne W. Babcock Award in Surgery), Jeremy Wilkinson (Eugene Brady Award in Psychotherapy), Ishita Arya (William A. Hammond Award in Neurology), Troy Sofinowski (Milton Ginsberg Award) and Mark Shimko (A. Bradley Gaither Award in Genitourinary Surgery)

Thomas E. Gillespie Award for Excellence in Orthopaedics
Elisa J. Knutsen

Uhlenhuth Award for Excellence in the Anatomical Sciences
Mitchell A. Gutshall

Wayne W. Babcock Award for Excellence in Surgery
Adriana F. Jones



Nana Benneh, '07, receives the Jeremy Hallisey Award from Peter Rock, MD, chairman of the department of anesthesiology.

William Alexander Hammond Award for Excellence in Neurology
Ishita Arya

William H. Mosberg Jr., MD, Award for Neurosurgery
Gary T. Schwartzbauer



Michael H. Kwon, '07, recipient of the Dean's Award for Excellence in Research, poses with Vice Dean Bruce Jarrell and Dean Reece.

Did we take your photograph?

Several hundred photographs from our May activities are available on the MAA website: www.medicalalumni.org Please visit our site to copy your favorites.



Katherine Bever, '10, recipient of the Dr. Mary Dorcas Clark Scholarship, visits with Mary Clark, '45.



Audrey O. Segal, '07 (second from left), receives the inaugural Dr. James and Carolyn Frenkel Award, awarded for overcoming a medical disability. Attending the presentation are (from left) Vice Dean Bruce Jarrell, Carolyn Frenkel, Associate Dean David Mallott, and Dean Reece.



Celebrating 200 Years

The Bicentennial

The annual pre-commencement convocation at Joseph Meyerhoff Symphony Hall was anything but ordinary this year. The graduating class of 2007 was joined by more than 300 faculty, alumni representatives from virtually every class with a surviving member, our three surviving dean emeriti, delegates from the four medical schools founded before Maryland, and the president of the Association of American Medical Colleges. In addition, participants were treated to an address by Abraham Verghese, MD, a best-selling author and founding director of the center for medical humanities and ethics at the University of Texas Health Science Center at San Antonio.

Alumni Convocation Participants

Manuel Levin, '34
James Frenkil, '37
Lawrence Perlman, '37
H. Leonard Warres, '38
Franklin E. Leslie, '41
Irving J. Taylor, '43M
Stanley N. Yaffe, '44
Mary Dorcas Clark, '45
Samuel D. Gaby, '46
Anne D. Mattern, '47
Leonard H. Golombek, '48
Nathan Schnaper, '49
Henry H. Startzman Jr., '50
Frederick J. Hatem, '51
Morton M. Krieger, '52
Sylvan Frieman, '53
Thomas E. Hunt Jr., '54
Morton D. Kramer, '55
Joseph S. McLaughlin, '56
Nevins W. Todd Jr., '57
George R. Baumgardner, '58
Ramon F. Roig Jr., '59
Selvin Passen, '60

David E. Litrenta, '61
Theodore C. Patterson, '62
Alice B. Heisler, '63
Ruth E. Luddy, '64
Ronald Goldner, '65
Carolyn J. Pass, '66
Joseph C. Orlando, '67
Barry J. Schlossberg, '68
Mark M. Applefeld, '69
Philip A. Mackowiak, '70
Charles F. Hobelmann Jr., '71
Celeste L. Woodward, '72
Nelson H. Goldberg, '73
David L. Zisow, '74
Richard L. Taylor, '75
Melvin Sharoky, '76
Willarda V. Edwards, '77
Neil E. Warres, '78
Peter E. Godfrey, '79
Milford M. Foxwell Jr., '80
Andrew M. Malinow, '81
Robert M. Phillips, '82
Protagoras N. Cutchis, '83

Roy E. Bands Jr., '84
Alan R. Malouf, '85
Carola Mattern Nesbitt, '86
James P. Nataro, '87
Marcella A. Wozniak, '88
Angela I. Choe, '89
Martin I. Passen, '90
Janet M. O'Mahony, '91
Donna S. Hanes, '92
Kathryn M. Connor, '93
Louis B. Malinow, '94
Kevin Dooley, '95
Stephanie D. Silverman, '96
Rachel V. Kramer, '97
Otha Myles, '98
Andrew A. Kramer, '99
Tamara L. Burgunder, '00
Josh S. Foreman, '01
Parham Jaber, '02
Todd W. Flannery, '03
Meredith A. Brisco, '04
Hiroko Beck, '05
Adam D. Friedlander, '06

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Annual Pre-Commencement Convocation



Above: Dean Reece introduces representatives from the four medical schools established prior to Maryland's founding: the University of Pennsylvania (1765); Columbia University College of Physicians and Surgeons (1767); Harvard Medical School (1782); and Dartmouth Medical School (1797). Also introduced was Darrell G. Kirch, MD (far right), president of the Association of American Medical Colleges.



Above: Attending the celebration were Maryland's three surviving dean emeriti: John H. Moxley III, MD, dean from 1969 to 1973; John M. Dennis, '45, dean from 1973 to 1990; and Donald E. Wilson, MD, MACP, dean from 1991 to 2006.



Above: Manuel Levin, '34, was the most senior-ranking graduate at pre-commencement convocation.

Right: Class president Sara B. Faber

Far right: Convocation speaker Abraham Verghese, MD

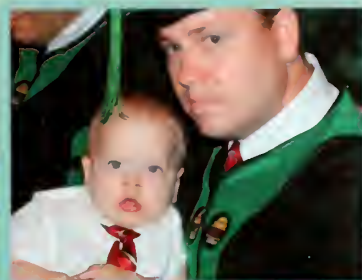
Left: The Class of 2007



Above: Matthew L. Dunn, '07, with his son

Left: Mace Bearer Bruce Jarrell, MD, vice dean for research and clinical affairs

Below: Philip A. Mackowiak, '70; Charles F. Hobelmann Jr., '71; Celeste L. Woodward, '72; and Nelson H. Goldberg, '73





Celebrating 200 Years

Message from the President

David B. Sigman, '93

133rd President Medical Alumni Association

The 2007 bicentennial pre-commencement convocation at Joseph Meyerhoff Symphony Hall was quite a spectacle. In addition to the normal parade of soon-to-be graduates and honorable faculty were representatives from the four medical schools established before ours (Pennsylvania, Columbia, Harvard and Dartmouth), president of the AAMC, a distinguished guest speaker, our three surviving dean emeriti, and—perhaps most noticeable to the over-flowing crowd—alumni representatives from virtually every class with a living member (*please see the list of participants on page 10*). As alumni president, I presided over this collection of exceptional alumni colleagues which included **Manuel Levin, '34**, the most senior-ranking representative among us. One could tell by the twinkle in Manny's eyes that he was extremely proud to be there; we all were. **Larry Perlman, '37** traveled here from Illinois; **George Baumgardner, '58**, from New Jersey; **Peter Godfrey, '79**, from Virginia; **Robert Phillips, '82**, from Michigan; **Angela Choe, '89**, from Pennsylvania; **Kathryn Connor, '93**, (my classmate) from North Carolina; **Kevin Dooley, '95**, and **Rachel Kramer, '97**, from New York; **Parham Jaber, '02**, from Louisiana; and **Meredith Brisco, '04**, from Missouri.

Morton D. Kramer, '55, was joined by daughter **Rachel, '97**, and son **Andrew, '99**; **E. Anne Mattern, '47**, attended with daughter **Carola, '86**; with **Selvin Passen, '60**, was son **Martin, '90**; and **Leonard Warres, '38**, enjoyed the ceremony with son **Neil, '78**. Among us were teachers, researchers, and clinicians. Many are retired, and I know more than a handful of others are still paying off student loans. Our common denominator was our passion for the medical school.

The entire bicentennial celebration was a huge success. This warm, fuzzy sensation that we feel about our school motivates us. It reminds us that we are proud beneficiaries of a medical education that nurtures the development of compassionate, inquisitive, ethical, and skilled physicians and researchers. And we—you and I—are ambassadors for what has become one of the greatest medical schools in the United States. I invite you to join us in our efforts to make Maryland the best it can be.

David B. Sigman received an undergraduate degree from Northwestern University before graduating in 1993. He received training in urology at Maryland until 1999 and is now chief of the department of urology at Northwest Hospital Center in Baltimore County. In addition, he is a partner in Chesapeake Urology Associates, the second largest urology practice in the country. He and wife Christine live in Owings Mills with their three children.



2007–08

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Our Medical Alumni Association

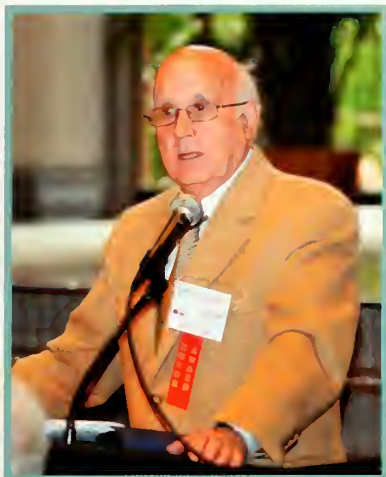
Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (those graduated more than 50 years or have reached age 70) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

Hickman, Mackowiak Honored at 132nd Recognition Luncheon



Robert O. Hickman, '57, recipient of the 2007 Honor Award & Gold Key

Robert O. Hickman, '57, who in 1973 developed a multi-purpose catheter for oncology patients that bears his name, received the 2007 Honor Award & Gold Key at the 132nd Recognition Luncheon on May 18. The award, given since 1948, recognizes outstanding contributions to medicine and distinguished service to mankind. Philip A. Mackowiak, '70, founder of the medical school's historical Clinicopathological Conference in 1995, was recipient of the 2007 Distinguished Service Award. The honor has been presented since 1986 for outstanding service to the medical school and alumni association. Mackowiak is professor of medicine, vice chair of the department of medicine, and director of the clinical center for the VA Maryland Heath Care system. Twenty-six members from the class of 1957, celebrating their golden anniversary, were also recognized during the luncheon.



Philip A. Mackowiak, '70, received the 2007 Distinguished Service Award



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Calls for 2008 Awards Nominations!



*Honor Award & Gold Key
MAA Service Award*

Alumni, faculty, and friends are invited to send in nominations for two MAA-sponsored awards by November 1, 2007. The Honor Award & Gold Key is awarded to a living graduate based on outstanding contributions to medicine and distinguished service to mankind. Factors considered in the selection process include: impact of accomplishments; local, national and international recognition; support letters, and publications.

The Medical Alumni Association Service Award is given to an individual who has provided outstanding service to the Association and Medical School. The awards will be presented during the Reunion Recognition Luncheon on May 3, 2008. Letters of nomination for both awards must include a curriculum vitae and should be addressed to:

*Barry Schlossberg, '68
Chair, Awards Committee
Medical Alumni Association
522 West Lombard Street
Baltimore, MD 21201-1636
or emailed to: maa@medalumni.umaryland.edu*



Celebrating 200 Years

13th Annual Historical Clinicopathological Conference

Saving President Lincoln

BY CAITLIN DOLAN

The death of Abraham Lincoln marked a gruesome end to a presidency devoted to unification and reform, and it remains unclear how his strong leadership could have healed a divided nation. But if John Wilkes Booth had shot Lincoln in 2007, and if the president had the benefit of being treated by the world's first trauma center at the University of Maryland, would the outcome have been any different? According to Thomas M. Scalea, MD, physician-in-chief for the R Adams Cowley Shock Trauma Center since 1997, the president sustained a recoverable injury with a reasonable expectation to survive. "We see dozens of head wounds from gunshots every year, and many survive," said Scalea.

The 1865 assassination and the theoretical impact of Lincoln's potential survival were the subject matter for the 13th annual Historical Clinicopathological Conference, sponsored by the MAA, medical school, and VA Maryland Healthcare System. In his presentation to nearly 350 medical students, faculty, and alumni, Scalea demonstrated how the president's bullet wound was not necessarily fatal. Medical records from April 1865, found in the National Archives, were scrutinized by Scalea and his team. They found the frontal lobes of the brain, which control cognition, were not compromised. Thus, Scalea concluded that if Lincoln had survived the attack, he might have been capable of limited speech and possessing reasonable memory after a long recovery. But he added that the president would have faced partial blindness, unsteadiness of gait, numbness of key extremities, and impaired speech

due to severe damage done by the ball of a der-ringer pistol fired by John Wilkes Booth.

According to official reports of the assassination, an initial examination by Dr. Charles A. Leale that took place moments after the attack found Lincoln in a comatose condition with stertorous breathing. After finding an absent right radial pulse, Leale placed the president in a recumbent position and examined the head wound. He discovered a blood clot located approximately one inch below the superior curved line of the occipital bone, removed the coagula, and eventually resuscitated Lincoln.

Once Lincoln was transferred across the street to the Peterson House, the president's medical team used a silver probe to keep the bullet wound open and attempted to prevent the further formation of coagula. Those at Lincoln's bedside

noticed a slight ecchymosis on the left eyelid, while doctors attempted to reduce the intracerebral pressure that damaged the president's brainstem. As the night continued, Lincoln's respiration and pulse rate diminished as the swelling and bleeding of the brain became more severe. Nine hours after the attack at Ford's Theater, the president "breathed his last, and the spirit fled to God, who gave it."



Thomas Scalea, MD

Throughout the conference, Scalea described the tactics the trauma team at Maryland would have performed to save the president's life. "He needed surgery, modern-day life support, and the appropriate level of intensive care," Scalea said. The cause of death, according to Scalea, was due to the staggering amount of brain swelling and blood loss caused by the fatal shot.

If the assassination had occurred in 2007 with access to current medical technology, an endotracheal tube would have been inserted. In addition, intravenous fluid (containing a higher salt concentration than blood) would have been administered to reduce edema of the brain. Within ten minutes, a CAT scan of the president's head would be performed, and a physical examination would take place. The CAT scan results would show large blood pools that could quickly be addressed by today's specialists. Scalea noted that one side of the skull would be removed, opened, and covered. Then, two procedures developed at Maryland would be performed by surgeons to further reduce brain swelling and blood loss: the president's abdominal cavity would be opened and the bed would be placed in a vertical position. Then, it would be crucial for medical staff to protect the president from complications such as infection, kidney failure, and bleeding. With a positive outcome, Scalea suggested that it is likely Lincoln could return to office after extensive physical therapy. "For him to have lived today would not be an extraordinary thing," he concluded.



Dr. Samuel Mudd as portrayed by Wayne Millan



Celebrating 200 Years

Had Lincoln survived, Secretary of War Edwin Stanton, who made a number of critical decisions directly after the assassination, would likely have played a greater role, according to Stephen Lee Carson. The presidential historian reminded the audience that Vice President Andrew Johnson would not automatically have taken charge because the 25th Amendment, which deals with the transfer of power when a president is incapacitated, was not in place until after the Kennedy assassination. "The decision as to who took charge was handled on a case-by-case basis until then," Carson added.

This year's conference included a cameo appearance by Samuel Alexander Mudd, class of 1856, portrayed by Wayne Millan. Mudd gained notoriety for setting the broken left fibula of Booth on the morning of Lincoln's death. He was convicted of aiding and abetting Lincoln conspirators and received a life sentence to be served at Fort Jefferson, Florida, but was later pardoned. Nikki Southall, '02, and Heather M. Luper, MSW, performed a rendition of *Farewell Father, Friend and Guardian*, a song written after Lincoln's death.



Historian Steven Lee Carson

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Also available:

Post Mortem: Solving History's Great Medical Mysteries

By Philip A. Mackowiak, MD, FACP, MBA, Class of '70

This new book examines the controversial lives and deaths of 12 famous men and women, including Alexander the Great, Herod, Joan of Arc, Mozart, Beethoven, and Edgar Allan Poe, who have been subjects of our past CPC conferences. It combines mystery stories with popular history and medical case studies to offer you a fascinating and entertaining experience!

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Medical Alumni Association



The Bicentennial Gala

More than 1,300 alumni, faculty, staff, students, and friends of the medical school gathered for the Bicentennial Gala on May 18. The event, held at the Baltimore Convention Center, featured music by Stevie V. and the Heart Attackers, comedian Dennis Miller, and a cameo appearance by the medical school's founder and first dean, Dr. John B. Davidge.



Maryland's 30th dean, E. Albert Reece, MD, PhD, MBA, visits with the founder and first dean, John B. Davidge, MD, as portrayed by Alan Wade.



Speaker of the Maryland House of Delegates Mike Busch and UMMC CEO Jeffrey Rivest



Comedian Dennis Miller

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Celebrating 200 Years



Willarda V. Edwards, '77 and Vernon R. McIntyre



Maryland governor Martin O'Malley visits with Ellen Goldmark, '08, and Vickrant Ubera '08.



*Rodrigo Taro, MD with
Richard L. Taylor, '75*



The Bicentennial Gala



Stephen Valenti, '78, and his group provided the musical entertainment.



Alexias Sharoky and Melvin Sharoky, '76, co-chairs for the Gala



Stephen T. Bartlett, MD, chair of surgery, is seated with Joseph Farda and wife Ann.





Celebrating 200 Years

Gala



Sue Rock with Michael T. Shipley, PhD, chair of the department of anatomy and neurobiology, and Peter Rock, MD, chair of the department of anesthesiology



Descendants of two medical school founders attended the Gala. Kathleen Potter and husband William S. Potter II, the great, great, great grandnephew of Dr. Nathaniel Potter, visit with William B. Davidge and daughter Brittney. William is the great, great, great grandson of Dr. John B. Davidge.



Gary Fiskum, PhD with former chair of anesthesiology M. Jane Matjasko, MD, and husband Shao-Huang Chui, MD

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Celebrating 200 Years

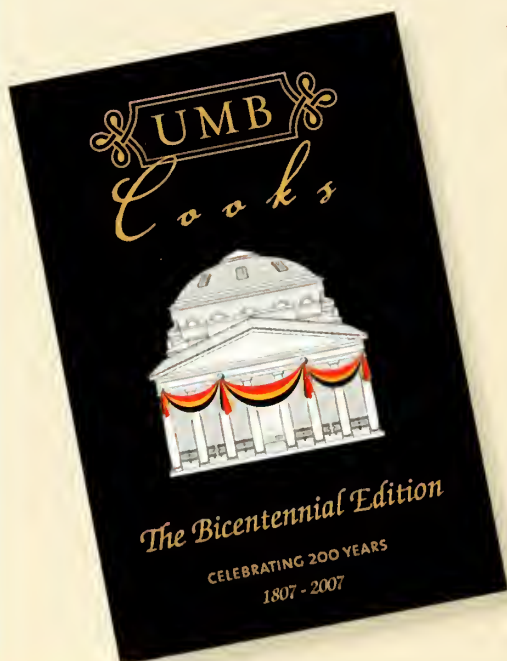


Saturday Activities

More than 250 graduates participated in Reunion events on Saturday, which included tours of campus, a trip to the World War II memorial in Washington, D.C., Baltimore Land & Sea Tours, lectures on the medical school's history and the renovation of Davidge Hall, as well as a crab feast at the Baltimore Museum of Industry.



Counter clockwise: Classmates from 1987, including Thomas B. Mulford (center), enjoy their visit; Francane and Anthony Boccuti, '57; Crab feast participants enjoy watching the Preakness Stakes on a television monitor.



UMB Cooks READY FOR PURCHASE!

In honor of our bicentennial, the University of Maryland, Baltimore has published a commemorative cookbook. *UMB Cooks*, a compilation of 500 recipes submitted by faculty, staff, students, alumni and friends—and a few surprise Marylanders—is available for purchase at the bicentennial price of \$18.07. Order yours today by calling the Office of University Events at 410-706-8035 or online at www.oce.umaryland.edu/cookbook.

Reunion Activities

A Tribute to Our Senior Reunion Classes

The Class of 1957 completed its golden anniversary celebration with a Sunday brunch in the President's Atrium behind Davidge Hall. The class of 1952 also closed its 55-year celebration with a Sunday brunch in Davidge Hall, as did the class of 1962 at the Marriott Hotel. The class of 1937, featuring James Frenkil and Lawrence Perlman, enjoyed a celebration at the Frenkil home.

Class of 1937



Class of 1957

Class of 1952



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Several hundred photographs from our May activities are available on the MAA website: www.medicalalumni.org. Please visit our site to copy your favorites.

Believe it or Not! Lawrence D. Egbert, '52, and wife Ellen E. Barfield, arrived at the 55th Reunion brunch on bicycles.

Class of 1962



To Boldly Go:

Maryland's Department of Otorhinolaryngology-Head and Neck Surgery

BY CAELIE M. HAINES

It's
only fitting for Scott E.
Strome, MD, to boldly go where no one
has gone before at the medical school. The
professor and chair of the department of otorhino-
laryngology-head and neck surgery is an avid *Star Trek*
fan who has been known to showcase his department's
research with a powerpoint presentation that features an
exploding Klingon starship. And some might mistake the depart-
ment's name for a futuristic kind of science.

Otorhinolaryngology-head and neck surgery (Oto-HNS) doesn't
exactly roll off the tongue. But the full name is important, because it
describes the expanding scope of a specialty once known as ear,
nose and throat (ENT). Today, the care provided by Oto-HNS doctors
goes far beyond standard treatments for ear infections, sinusitis and
tonsillitis. From cochlear implants to treat hearing loss to rhino-
plasty and experimental therapies for head and neck cancers,
the department is leading the way in a field that is con-
stantly evolving. In fact, under the leadership of Strome,
the department has been a study in positive growth
and change. Only two years ago, Oto-HNS
was the division of ENT within the
department of surgery.

But as a division with a limited number of faculty members, it was becoming more difficult for physicians to simultaneously provide a wide range of cutting-edge care, conduct research and meet a growing student interest in the specialty. It was also becoming more difficult for the division to garner research funding and attract collaborators, especially when competing against medical schools with the resources that a full, autonomous otorhinolaryngology department could provide. Recognizing the need for growth, former dean Donald E. Wilson, MD, MACP, put plans in motion to expand the ENT division into a separate department.

To captain the transformation from division to department, Wilson recruited Strome from the Mayo Clinic College of Medicine, where Strome ran a large translational research program. From the outset, it was clear that Strome would chart his own course. In the spirit of the famous *Star Trek* mission statement, he would “boldly go where no one has gone before.” Rather than follow a trail someone else had already blazed, Strome created the Oto-HNS department to his specifications. “I developed a leadership team in the three areas on which I wanted to focus—research, education and clinical practice,” he explains. “I then empowered those people to make decisions and simply supported them.”

Strome and his colleagues have moved at warp speed to meet the ambitious clinical and research goals he set for the newly created department. Under Strome’s leadership, the faculty has grown to 15 with more on the way. “I identified both our strengths and weaknesses and personally directed recruitment to fill those areas of need,” says Strome, who also serves as chief of otorhinolaryngology at the University of Maryland Medical Center (UMMC). That commitment has paid off with a significant increase in research funding and exponential growth of their patient base.

Administration has been a large part of Strome’s job during this important expansion. But first and foremost, Strome is a dedicated clinician and scientist. He has a special desire to help patients with head and neck cancers, particularly those who have run out of treatment options. That desire to help is reflected in his research on “Trojan peptide” vaccines to treat squamous cell carcinoma, a common type of head and neck cancer. The goal is to learn whether the vaccines, which target specific proteins made by tumors, can stimulate the body’s immune system to destroy the cancer.

Made from peptides, or fragments of proteins found in select tumor cells, the vaccines are designed to slip into cells with the help of a “chaperone” that carries the bulky protein molecules through dense cell membranes, much like a “Trojan horse” bringing soldiers behind enemy lines before a surprise attack.

“We hope that these vaccines will stimulate the patients’ T cells, or immune cells, to recognize the proteins as invaders and seek out and kill the cancer cells throughout the body that produce the same proteins,” says Strome, who helped develop the vaccines.

Cancers of the head and neck—including those of the throat, mouth, larynx, sinuses, salivary glands and skin—are often difficult to treat and have a high risk of recurrence. Treatments include surgery, chemotherapy and radiation therapy. More than 40,000 people in the United States are

diagnosed each year with head and neck cancer, and about half will die of the disease. Smoking has been linked to some cancers, but physicians are seeing an increase in this type of cancer in people who do not smoke.

“We have used the latest scientific knowledge to design these vaccines,” Strome explains. “We hope that they will help patients, which is always our goal, but we also know that the knowledge we gain from this study may, in the end, help us to design even better vaccines.” Funded by the National Institutes of Health, the trial is being conducted at the University of Maryland Marlene and Stewart Greenebaum Cancer Center. It is the first to use large Trojan peptide vaccines to treat cancer patients. The peptides in these vaccines are comprised of approximately 40 to 50 amino acids, compared with much smaller numbers in other vaccines.

“While the clinical impact of our vaccine is too early to assess, it is gratifying to think that we have restored hope in some patients and given them the tools to fight back against their cancers,” says Strome.

Such boundary-breaking research—fostered by Strome’s leadership—has contributed to the department’s growing national reputation. But like any good captain, Strome also has a crew upon which he can rely, both at home and at work. “My family is truly the highlight of my life,” he says. “I have a wonderful wife, Kimberlee, who in addition to being a terrific mother is the director of the pilates program at Life Bridge Health and Fitness. Together we have three wonderful children: Arianna (12), Sophie (10) and Max (8).”



Scott Strome, MD

"While the clinical impact of our vaccine is too early to assess, it is gratifying to think that we have restored hope in some patients and given them the tools to fight back against their cancers," says Strome.



Drs. Tanya Meyer and William Gray (right and above) teaching department residents.

While Kimberlee is in command at home, many people fill that role on the job. "I view everyone in the department of Oto-HNS as a partner in this endeavor," says Strome. "To single out an individual would be to lessen the impact of the contributions of the group." To *Star Trek* fans, that sentiment will sound familiar. To quote a scene from *Star Trek II: The Wrath of Khan*, "The needs of the many outweigh the needs of the few—or the one." There is no question that Strome's inclusive management style has helped to ease the complex transition from division to department.

Some of the involved doctors had their doubts when they first heard of the division's impending change in status. "I did not appreciate fully what a huge impact it would make," says Rodney J. Taylor, MD, an assistant professor of Oto-HNS at the medical school. "I thought it would be more of an administrative or financial arrangement that would not impact my career and practice. But I was dead wrong," says Taylor. "We have been able to grow new programs and attract talent in both the clinical and research arenas that we never were able to before."

One of the biggest advantages of becoming a department has been the higher profile it's given Maryland researchers, both in Maryland and around the world. "Being a department has literally created regional, national and international relationships and collaborations for our research," says Taylor. "It is amazing."

Strome is the first to admit that building those opportunities has been a team effort. "This transition was undertaken with support from the dean's office and the department of surgery," says Strome, "and I am indebted to Dr. Wilson and Dr. Stephen Bartlett (chair

of the department of surgery) for their support in facilitating this endeavor." That support continues today under Dean E. Albert Reece, MD, PhD, MBA.

While his hands-on style has been critical to the department's success, faculty members agree that Strome also knows when to step back and let others take the helm.

"Dr. Strome has an open-door and open-discussion policy about departmental decisions," explains Jeffrey Wolf, MD, a head and neck surgeon who has been an assistant professor at the school since 2001. "We now have the autonomy to advance our clinical care and research programs."

Wolf is taking full advantage of his new clinical and research opportunities. He recently received FDA approval to conduct a vaccine trial, using dendritic cells to try to stimulate the immune systems of patients with head and neck cancers. He is also investigating the causes and treatment of sinusitis and overseeing a clinical trial correlating sinusitis with tobacco smoke exposure.

This cutting-edge research has garnered media attention and raised the department's national profile, but to patients, publicity doesn't matter half as much as whether the doctors can fix what ails them. Jane (not her real name) recently had a health scare involving her thyroid. Located in the neck, it is one of the larger endocrine glands in the body. As a bride-to-be, Jane was already under enormous stress when her medical issues emerged to complicate her life even further. She sought out Strome for help. "He immediately made me feel at ease," Jane says. "He knows how to use comedy to take your mind off the situation."

Strome and his team also impressed her with their knowledge. "They were able to figure out very quickly what was wrong," Jane explains. Fortunately, malignancy was ruled out early on. "It was such a relief to get an answer right away about what was going on medically; so I could get back to focusing on everything else going on in my life."

The department currently oversees eight treatment programs at the medical center: the center for skull-base surgery, facial plastic and reconstructive surgery, general otorhinolaryngology, which includes treatment and management of pediatric ear, nose and throat problems, head and neck oncology, head and neck surgery, the hearing and balance center, speech/language pathology, and professional voice, which provides medical, surgical and rehabilitation services for individuals with voice problems and other disorders of the larynx.

Department physicians never know from one day to the next what their next patient challenge might be. "We see all sorts of folks, with problems ranging from earaches to advanced skull-base tumors," says Strome. "These individuals are from all socioeconomic groups and geographic locations. I have several out-of-state patients who have followed me from Mayo, and others who are interested in our unique clinical trials or our cancer care program."



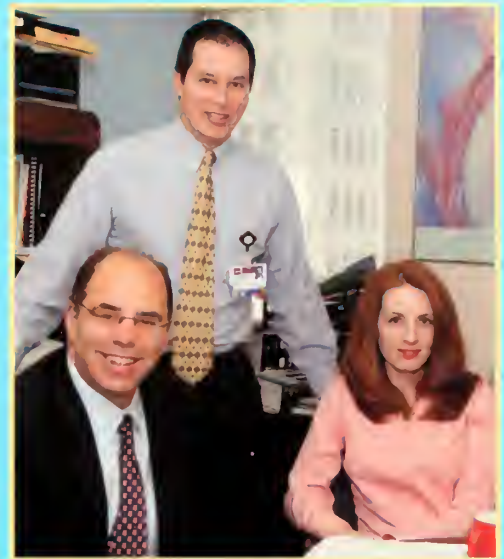
Drs. Brian Ego-Osuala and Kim Baker, both department residents

All department physicians remain active in research and patient care, while also training the next generation of otorhinolaryngology-head and neck specialists at the school and medical center. "Now that we have clearly defined the structure of our educational program, we plan to nurture its development," Strome says. "This will be done by promoting our residents' learning initiatives, as well as their interpersonal and career development. It is incredibly gratifying to me to see the joy in our residents' eyes as they expand their knowledge base, clinical skills and surgical acumen. As we foster our program's development, we intend to maintain this spirit and graduate Oto-HNS surgeons who not only have the expertise to provide outstanding care, but the humanity to address their patients' fears and the inquisitiveness to advance new knowledge."

Students and residents aren't the only ones benefiting from the way the department continues to push the envelope. "This is an exciting time to be at the department," says assistant professor Thomas Le, MD, a facial plastic and reconstructive surgeon. "The opportunities to conduct truly innovative state-of-the-art patient care, research and education are enormous.

Looking to the future, I see only continued tremendous growth, and this means outstanding patient care for the state of Maryland, the region and the nation."

Strome plans to pilot his crew to continued success through further expansion of the department's research enterprise and a commitment to translational research; so that lessons learned in the laboratory lead to new treatments for patients. Providing support and mentorship for clinician scientists is also key to the success of the expansion. A senior scientist has been appointed to mentor both junior faculty and post-doctoral fellows. And Strome is developing close ties with other senior scientists throughout the university. "This effort has already paid enormous dividends in terms of both academic productivity and grant support," says Strome.



Dr. Strome with senior associate Charles Schroder and associate administrator Melissa Tibbs

Clinical programs will also remain a priority. "From a clinical perspective, we plan to work in partnership with the medical system to expand our program into the community," says Strome. "This will allow patients throughout the state to receive Oto-HNS care by physicians affiliated with the University of Maryland, regardless of their location. We are also developing specialized programs of excellence, including a center for voice and swallowing, a center for balance and falls, and a center for skull-base surgery. These centers will incorporate skilled providers in multiple disciplines to enhance the patient care experience, facilitate dissemination of knowledge, and advance our understanding of specific disease processes. Finally, we are working in partnership with private practitioners within the community to facilitate referrals and provide seamless patient care."

There is no question that Strome has set the bar high for his department. But there is one more goal he'd like to reach—a goal that is a bit more personal than his department's success. It's an ambition that says much about Strome's zest for life, his desire to "live long and prosper," as the Vulcan greeting goes.

"I love to play pick-up basketball," he says with a laugh. "Although I am without question the worst player on the court, I think I have the most fun! I just wish, once in my life, that I could dunk!" Now that would be a bold move.

Photo by [unreadable]

Bulletin Recollections

1932 The April issue includes the fee schedule for the fall semester.

STUDENTS MUST BE PREPARED TO PURCHASE MICROSCOPES AT THE BEGINNING OF THE FIRST YEAR

All the above rules, as well as the fees stated below, relate to the year ending June 3rd, 1933, only. The right is reserved to make changes in the curriculum, the requirements for graduation, the fees and in any of the regulations whenever the Faculty deems it expedient.

FEES

Matriculation fee (paid once).....	\$10.00
Tuition fee (each year) for residents of Maryland.....	350.00
Tuition fee (each year) for non-residents.....	500.00
Laboratory fee (each year).....	25.00
Special and re-examination fee.....	5.00
Graduation fee	15.00

No fees are returnable.

The above fees apply to all students who matriculate in the School of Medicine in any class for the session beginning September 26th, 1932.

The editorial board is proud to present Volume 92, Number 1 of the **Bulletin** magazine, the oldest medical alumni association publication in the United States.

In addition to serving as the medical school's primary communications link with alumni since 1916, it serves as a bridge connecting us to our past.

This section of the magazine features snippets of past issues, offering a look at our medical school 25, 50 & 75 years ago.

1957 The Upjohn Company advertises its revolutionary packaging equipment.

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*Trademark of E. I. du Pont de Nemours & Co., Inc.

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Upjohn

1982 In celebration of the recently completed renovation of Davidge Hall, the medical school community staged a re-enactment of the 1824 ceremony awarding an honorary degree to Marquis de Lafayette.



classnotes

30s

1938: Joseph M. George Jr., of Las Vegas reports that he is 94 and doing well! **W. Lehman Guyton** of Cockeysville, Md., reports that he is living well and enjoying life at Broadmead, his retirement community.

40s

1943M: J. Emmett Queen of Timonium, Md., is 90 and feels great!

1943D: Luis M. Isaacs of Boca Raton, Fla., extends best wishes to his classmates from '43D

1944: Herbert B. Copeland retired to Naples, Fla., and recently celebrated his 87th birthday. **William W. Osborne** of Savannah, Ga., is living it up in a Kidaway Island retirement village with four golf courses and four restaurants. He is joined by wife Elizabeth and brother **Horace H. Osborne '46**.

1946: John C. Rawlins of Seaford, Del., is a proud alumnus and enjoying his retirement. He and wife June will celebrate their 64th wedding anniversary this August. **Milton Reisch** of Yonkers, N.Y., splits retirement living between Yonkers and Plantation, Fla.

1947: Jose G. Valderas of Keller, Tex., recently participated in a medical mission to Matamoros, Mexico. He remains very busy and finds life very rewarding with wife Roberta.

50s

1951: S. Norman Sherry of Cambridge, Mass., is enjoying the pleasures of retirement with family in this "educational Mecca."

1954: Robert H. Ellis of Fort Collins, Colo., is appreciative of receiving a copy of the University of Maryland

School of Medicine: *The First Two Centuries* publication. **Marshall A. Simpson** of Columbus, Ga., reports that wife Barbara passed away on October 29, 2006.

60s

1962: John A. Rupke of Grand Rapids, Mich., continues to serve as an alternate delegate to the Michigan State Medical Society after completing a term as caucus chairman for the organized medical staff section of the Heartland Caucus (eight states).

1963: Kenneth G. Magee of Dunwoody, Ga., retired from his pediatric practice, begun in 1971, on December 30, 2006. He and his wife Barby will continue to reside in their current residence in Dunwoody.

1965: Louis O. Olsen of Timonium, Md., recently retired after forty years of family practice and is spending his time with his wife Lenora and their three grandchildren. He enjoys doing volunteer work.

1966: Stuart Fine and wife Ellie have been in Philadelphia for 17 years, since Fine assumed the position of professor and chair of ophthalmology at the University of Pennsylvania. Daughter Karen has been married for 18 years to Tom Pranikoff, a pediatric surgeon at Wake Forest; together they have two children. Son Andy and his wife Laura reside in Boston where Andy is an instructor of pediatrics at Harvard Medical School/Children's Hospital and Laura is in private practice of ophthalmology; they have two children, and all are doing well! **Robert E. Leibowitz** of Delanco, N.J., enjoys retirement at the poker table in Harrah's Casino in Atlantic City. He and wife Diane also love spending time with their four grandchildren.

1968: Eugene Willis Jr. of Ellicott City, Md., retired from seeing patients in April 2004. Since then, he has served as a physician advisor for Utilization and Case Management at Howard County General Hospital.

1969: Joseph B. Esterson of Hollywood, Fla., received the 2007 George Paff Award for Excellence in Medical Education and the B.K. Simon Faculty Award for Excellence in Clinical Instruction for his work at the University of Miami School of Medicine. He is also the Director of Cardiology Training Programs at the Gordon Center for Research in Medical Education. **David A. Wike** of Boise, Idaho, and wife Carol are proud to announce the birth of their first grandchild in August 2006. The couple was awarded The 2006 Gordon Eastman Conservation Award for their work on behalf of the Idaho Fish and Game Conservatory as well as the Idaho Bird Observatory.

70s

1971: Robert J. Neborsky of Del Mar, Calif., presented "Changing Character in Short Term Dynamic Psychotherapy" during a May 2006 conference at St. John's College in Oxford, England.

1973: Murray A. Kalish of Baltimore reports that daughter Jennifer graduated AOA from Yale Medical School in May and has started her pediatric residency at the Children's Hospital of Philadelphia.

1974: Dawn V. Obrecht of Steamboat Springs, Colo., continues her consulting practice involving alcoholism and addictions, and she deals with public health and medical-legal issues, as well as participating in volunteer medical missions.

1975: Edward L. Morris of Baltimore reports that he moved his office to

classnotes

Quarry Lake at Greenspring, and the view is breathtaking. He says he may never retire!

1976: Ira E. Hantman of Baltimore is president of the medical staff at Mercy Medical Center.

1978: Morris Funk of Coral Springs, Fla., reports that son Michael begins a cardiology fellowship at Mt. Sinai Medical Center in Miami after completing a year there as chief resident.

1979: Richard A. Lebow of Hunt Valley, Md., reports that he recently completed his 26th year at Union Memorial Hospital's ER, while son Hunter has just finished his first year of pre-kindergarten at Gilman! **G. S. Malouf** and wife Grace of Bethesda, Md., have three children: Marc, Dena, and Stefanie.

80s

1980: Kenneth A. Jurist of Bloomfield Hills, Mich., is a proud member of the research committee for the American Orthopedic Society for Sports Medicine and reviews manuscripts for the American Journal of Sports Medicine. He will also be an examiner for the ABOS Oral Board Part II.

1983: Mary I. Jumbelic of Syracuse, N.Y., announces that her oldest son celebrates his high school graduation. He will be attending RPI on a merit scholarship to study computer science and videogame design. **Milton S. Sniadach** of Englewood, Colo., participated with family on a dive trip to Cozumel, where he photographed an octopus, pufferfish, moray eel, and trunk fish and enjoyed a night dive.

1984: R. Matthew Reveille of Golden, Colo., was named one of Denver's top doctors for 2006 by *5280 Magazine*.

1985: Rudolph C. Cane of Phoenix is medical director for Cigna HealthCare. **Victoria Mossman-Van Eendenburg** of Bloomington, Minn., reports that her family is healthy and happy! Daughter Hannah enjoys high school, lacrosse, band, soccer, and friends. Husband John works for Northwest Airlines and spends his time playing soccer and racquetball.

1986: Sangwoon Han of Lovettsville, Va., and husband Eric are enjoying country living and work in Frederick. While their older daughter Caitlin is headed to UVA this fall, younger daughter Kelsey will help prevent the Empty Nest Syndrome. **Carola Nesbitt** of Third Lake, Ill., represented

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classnotes

the class during the medical school's bicentennial convocation in May. She was accompanied by mother, **E. Anne Mattern**, who represented her class of 1947. **Chet. I. Wyman** of Ellicott City, Md., is vice president for medical affairs at Frederick Memorial Health-care System. He and wife Wendy enjoy spending time with seven-year-old son Michael and two-and-a-half year old twins Lana and Eric.

1988: Eugene T. Finan of Naples, Fla., is director of Naples MDVIP, the nation's premier preventive health group.

1989: Jean Marie Naples has returned to the Johns Hopkins School of Public Health continuing the research work from a project in Ghana on urinary schistosomiasis and bladder cancer. She continues to be on disability from a serious auto accident in 2005.

90s

1992: Virginia Powel Bay of Tulsa reports that her newly expanded children's hospital is nearing completion. Daughters Lilly, age six, and Laurel, age three, are doing great.

1994: Paul M. Berger of Allentown, Pa., has joined a new practice with the Urologic Association of Allentown.

Denise Parker Hawkins and husband Kevin of Studio City, Calif., announce the arrival of Eva, their second. Parker Hawkins practices at UCLA.

1995: Suman Mishra and husband Dinakar Golla, MD, of Pittsburgh are expecting their second child this summer.

1996: Chimene Liburd is enjoying practicing internal medicine in her Gambrills, Md. office, which she founded in 2005. Her family continues

to grow with three children Maya, DJ, and Trent. **Jeanette Nazarian** of Catonsville, Md., loves her time as a staff intensivist at Mercy and enjoys time with husband Doug and children Lila, age eight, and Grace, age five.

Stephanie Silverman and husband Adam Garretson, MD, of Cambridge, Md., announce the birth of Asher Joseph Garretson, their first, on March 7. They work at Choptank Community Health System.

1999: Jonathan H. Griner has two children: Hya, age two; and Emma, born September 23, 2006.

00s

2000: Joseph M. Herman of Baltimore currently practices radiation oncology at Johns Hopkins. **Melissa H. Katz** of Baltimore married Jordan Levine on November 5, 2006.

2001: Vikas Varma of West Hartford, Conn., is in a spine surgery fellowship following a sports medicine fellowship in 2006.

2002: Parham Jaber of New Orleans has joined the Louisiana Department of Health and Hospitals Office of Public Health, serving as regional medical director for five parishes in Southeast Louisiana. **Ceila E. Loughlin** and husband Pete Leuchtmann of Apex, N.C., are expecting their first child. Loughlin is training in pediatrics and Leuchtmann, who completed radiology training at Maryland in 2004, enjoys a private radiology practice in Raleigh.

2003: Todd W. Flannery of Baltimore gathered in Annapolis, Md. to celebrate the near completion of residency and fellowships with classmates **Karen M. Sutton, Jeffery T. Hobelman, John B. Jackson, Jason Custer, and Milford M. Merchant.**

2004: Kimberly Owens Nalda and husband **Ruben Nalda, '03**, of Belleville, Ill., are expecting their first this summer when Ruben begins an internal medicine residency. **Corinne Sokolik Jackson** and husband Mark of Chesapeake, Va., announce the birth of son Daniel on January 10, 2007. Sokolik Jackson is in the final year of an emergency medicine residency.

2006: Sandra K. Ruby of Westminster, Md., has begun a neurology residency after finishing up her internship at Mercy Medical Center.

Class Notes was compiled and written by Caitlin Dolan.

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In Memoriam

Sidney R. Gehlert, '37
Severna Park, Md.
May 24, 2007

Dr. Gehlert was a general surgeon with an office in Curtis Bay. He was preceded in death by wife Jo and is survived by two children, including **Sidney R. Gehlert III, '68**, grandson **Rick, '92**, and two great-grandchildren.

J. Brady Smith, '40
Severna Park, Md.
April 29, 2007

After medical school graduation, Dr. Smith enlisted in the U.S. Navy and served as chief medical officer aboard the USS Eastland, an attack transport vessel in the Pacific. Upon completion of his military service, he returned to Anne Arundel County and opened a family practice where he remained until retirement in 1987. During his career, Smith performed hundreds of home deliveries of babies for those who could not afford hospital maternity bills, and he rarely sent bills for his services. He enjoyed golf, sailing, reading, and he was a Civil War enthusiast. Smith is survived by wife Kitty, three children, and nine grandchildren.

John B. Wells, '41
Baltimore
May 24, 2007

Dr. Wells completed his internship and first year of residency at St. Vincent's Hospital in New York. A member of the Army Medical Corps during World War II, he later continued his medical residency at Baltimore's St. Joseph's Hospital before joining Franklin Square Hospital as an anesthesiologist. In 1958, Wells joined the staff at Church Home and Hospital. After his retirement in 1986, Wells built twenty large, wooden models of sailing vessels. He also remodeled his home in Cedar Croft. Wells was an avid sailor and enjoyed flying his private airplane. Wife Elizabeth, whom he divorced in 1965, passed away in 1999. Wells is survived by five children, eight grandchildren, and one great-granddaughter.

Donald L. Courtney, '43M
Reedsport, Oreg.
November 18, 2006

Upon completion of his medical education, Dr. Courtney entered the U.S. Navy where he served as a lieutenant during World War II. He interned at Emanuel Hospital in Portland and worked as a resident physician for Eastern Oregon State Tuberculosis Hospital. In 1949, Courtney moved to Reedsport where he practiced general surgery. He served two four-year terms on the Oregon State Board of Examiners and was chairman from 1983 to 1984. Courtney was chief of staff of Lower Umpqua Hospital and deputy sheriff and medical examiner for Douglas County. He retired in 1993. Courtney enjoyed golf, gardening, hunting, and fishing, and he is survived by wife Doris, six children, 11 grandchildren, and seven great-grandchildren.

Edwin H. Stewart Jr., '43M
Baltimore
May 6, 2007

Prior to medical school, Dr. Stewart conducted pioneering research into in-vitro fertilization as he worked with Dr. Nicholson J. Eastman, professor of obstetrics at Johns Hopkins School of Medicine and a birth control advocate. After medical school, Stewart interned and received residency training in surgery at Maryland, followed by a cancer fellowship at the U.S. Department of Public Health. From 1947 until retirement in 1992, he operated a private surgical practice in Baltimore, served on the faculty at Maryland, and was a member of the surgical staffs of Good Samaritan, Maryland General, and Church Home hospitals. In the 1960s, Stewart lobbied the Maryland General Assembly to improve health care for prison inmates as a consultant to the Maryland Department of Corrections. Appointments included the medical advisory board for P.I.E. Mutual Insurance Company and a medical advisory committee to

Maryland governor William Donald Schaefer. Stewart was active with the Boy Scouts and enjoyed teaching at the Renaissance Institute at the College of Notre Dame of Maryland. He is survived by wife Ella, five children including **Charles E. Stewart, '73**, 12 grandchildren and one great-grandson.

Charles W. Brown, '43D
Englewood, Colo.
June 15, 2005

Daniel Ehrlich, '43D
Baltimore
March 6, 2007

Dr. Ehrlich interned at Baltimore City Hospital and received residency training in internal medicine at South Baltimore General Hospital and in OB/GYN at St. Joseph's Hospital. In 1947, he began his military service in the U.S. Army where he served in Japan and at Ft. McPherson, Georgia, before returning to Baltimore and his medical practice. During his career, Ehrlich delivered more than 7,000 babies primarily at St. Joseph's and Sinai hospitals. For several years he served as vice president for the medical staff at St. Joseph's. He was an avid golfer, fisherman, and racketball player. He was enthusiastic in his celebration of life, served as an important role model to his family and friends, and was engaged in helping to improve the human condition through his service and activities. For many years he was a volunteer caller during the MAA's annual phonathon in Davidge Hall. Ehrlich is survived by wife Deanie, four children including **Gary, '65**, and **Paula, '81**, 12 grandchildren, and three great-grandchildren.

H. James Lambert Jr., '44
Wickenburg, Ariz.
December 27, 2006

After medical school graduation Dr. Lambert served his country on Iwo Jima and Okinawa, before returning to America and completing residency training in obstetrics and gynecology at Woman's Hospital in New York City.

In Memoriam

He was recalled into military service during the Korean War, stationed at the submarine base in New London, Connecticut. Later Lambert practiced medicine in Honolulu, Hawaii, as a partner at Straub Clinic, and he also held positions in San Diego and Hazard, Kentucky. He later accepted a teaching position as director of the women's clinic at the University of Oklahoma Health Sciences Center where he retired at age 78 after 11 years. He is survived by wife Gloria, four children, five stepchildren, five grandchildren, eight step-grandchildren, and four step-great-grandchildren. Lambert's first wife Jean passed away in 1969.

Allan H. Macht, '46
Baltimore
March 4, 2007

Dr. Macht was a member of the 1807 Alliance, the medical school's society for major donors. Macht was preceded in death by wife Charlene, and he is survived by three children including **Susan Cohen, '71**, and **Robert Macht, '78**, ten grandchildren and one great-grandchild.

G. William Martin Jr., '50
Ventura, Calif.
May 3, 2006

Prior to medical school, Dr. Martin enlisted in the U.S. Army and was critically injured during World War II at the Battle of the Bulge on Christmas Day 1944. Martin's specialty was occupational medicine, and he practiced with a group in Queenstown, Md., from 1951 to 1955, before establishing a solo practice in Wilmington, Delaware, from 1955 to 1963. From 1963 to 1969, Martin served as medical manager for IBM in Fishkill, New York. He was promoted to medical director for the western United States in 1969, a position he held until retirement in 1987. He enjoyed spending time with family, world travel, and playing golf. Martin was preceded in death by his first wife Jean, and is sur-

vived by wife Carol, four children and six grandchildren.

Michael C. J. Sulka, '50
Lexington, Ky.
April 8, 2007

Prior to medical school, Dr. Sulka served in the military during World War II, stationed in both the Pacific Theatre and in India. After medical school and training he practiced pathology for 37 years before retiring in 1987. Sulka's passion was thoroughbred horse racing, and he was a long-time owner who raced horses in West Virginia, Maryland, New York, and Kentucky. He is survived by wife Wilma, four children, and nine grandchildren.

Howard C. Kramer, '51
Joppa, Md.
March 6, 2007

Dr. Kramer was on the faculty, retiring as an associate professor. He also served as chief of urology at the VA Hospital at Loch Raven for 35 years and taught many of the urology residents at both Maryland and Johns Hopkins. His daughter **Theresa**, graduated from the medical school in 1986.

Robert A. Grubb, '52
Selinsgrove, Pa.
May 5, 2007

After graduation Dr. Grubb trained at Harrisburg Polyclinic. He was appointed by the governor to serve on the Nursing Home Administration Board of Pennsylvania. Grubb was a member of the John Beale Davidge Alliance, the medical school's society for major donors. He is survived by wife June, seven children, and 12 grandchildren.

Richard Y. Olsen, '52
Palm Desert, Calif.
February 22, 2007

As was the case with many of his classmates, Dr. Olsen served in the military during World War II. He was a chief radioman on the *Intrepid* with the U.S.

Navy. Medical school followed his military commitment, and then he began a general medicine and surgical practice in the San Fernando Valley. After retirement Olsen relocated to Palm Desert. He is survived by wife Joyce Anne, two daughters, one son, seven grandchildren and one great-grandson.

Louis C. Arp Jr., '53
Moline, Ill.
December 5, 2006

At age 17, a young Dr. Arp enlisted in the U.S. Navy and was accepted on his second attempt after memorizing the test for color blindness. He served for 18 months as a seaman first class aboard the USS Bennington and USS Salerno Bay in the Pacific fleet. After his military service he completed college and medical school. Arp interned at St. Luke's Hospital in Chicago and received residency training in surgery at the University of Iowa and Veteran's Hospital in Iowa City. A third generation surgeon, Arp returned to his birthplace of Moline, Illinois, where he joined the medical practice of his father and uncle. He practiced until retirement in 1990. Arp was a board member and president of the Rock Island County Medical Society and served as president of the medical staffs of Lutheran and Moline Public hospitals. He was a board member of the Moline Public Library and the Rock Island Arsenal Golf Club. Board memberships also included the Pinney Printing Company, Selective Service System, and Lutheran Hospital Foundation. Arp enjoyed traveling with family and hosting annual get togethers at a cabin in Clark, Colorado. He hunted, farmed, and was a bird enthusiast as well as a conservationist. Following retirement, he and wife Patricia spent their winters in Naples, Florida. In addition to Patricia, Arp is survived by four children and five grandchildren.

Corbett L. Quinn, '53
Magnolia, N.C.
December 16, 2006

In Memoriam

Dr. Quinn practiced family medicine in rural Magnolia, North Carolina. He was the first North Carolina state surgeon of the National Guard where he served for 32 years. Quinn served six terms as mayor of Magnolia and was its commissioner from 1957 to 1961. He and wife Ruth were officers in the Warsaw-Kenansville Rotary Club. In addition to his wife, Quinn is survived by one daughter, four grandchildren, and one great-granddaughter. He was preceded in death by son Corbett L., Jr.

Bert F. Morton, '68
Ellicott City, Md.
April 21, 2007

Following graduation, Dr. Morton completed residency training in pathology at St. Agnes Hospital, before being commissioned into the U.S. Navy where he served from 1974 to 1976. After his military commitment, Morton served as deputy chief Maryland medical examiner for two years and then returned to St. Agnes where he remained until retirement in 1999. He enjoyed hunting, fishing, and boating on the Chesapeake Bay, as well as vacationing in Ontario with family and friends. For more than 30 years he was an active member of the Towson Presbyterian Church, sitting on its board and participating in its outdoor education program. He was also active in Masonic affairs, serving as past master of Pythagoras Lodge and holding memberships with the Palestine Lodge, Boumi Temple, and the Royal Order of Jesters. Morton was a member of the 1807 Circle of the John Beale Davidge Alliance, the society comprising the medical school's most generous donors. He is survived by wife Carol, three sons including son **Andrew, '97**, and four grandchildren.

Richard H. Balcer, '71
Baltimore
April 20, 2007

Prior to medical school, Dr. Balcer studied for the Roman Catholic priesthood at St. Charles and St. Mary's sem-



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inaries, earning degrees in philosophy and theology. At the age of 25, he left his religious studies to serve in the U.S. Army and then attended medical school. Upon graduation Balcer received training in ophthalmology at Maryland General Hospital where he continued to teach and do research on diabetic retinal vascular disease. His practice included locations in Towson, Dundalk, and Parkville. He enjoyed large family gatherings where he often prepared the meals. Balcer is survived by wife Kathleen, three daughters, three step-children, and five grandchildren. His first wife Mary died in 1981.

Michael Lee Walker, '72
Panama City, Fla.
May 23, 2007

After graduation, Dr. Walker completed his residency in neurology at the University of Virginia. He later served in the U.S. Air Force as a neurologist, where he earned the rank of major. In 1980, Walker became an influential member of medical teams and communities in Panama City. Besides creating and advising several community boards in Florida, Walker founded the Bay

County Ethics Consortium. He also became involved with the Pharmaceutical Speakers Bureau and was the proud president of the Panama City Swim Team and safety director for the Southeastern Swimming Association. Walker ended his professional career by assuming the position of medical director at Gulf Coast Hospital and serving as a board member for Vision Bank. He is survived by wife Brenda, two children, and two grandchildren.

Gene O. Crawford, '77
Deltona, Fla.
August 20, 2004

After careers as a mathematician for Lockheed Missiles and Space Co., in Huntsville, Alabama, a systems manager for IBM in Washington, D.C., and an officer in the U.S. Army Reserves, Dr. Crawford received his medical degree and trained in OB/GYN at the Washington Hospital Center in Washington, D.C. After training he returned to Huntsville to open an OB/GYN practice and taught pre-medicine classes at Oakwood College—his alma mater—where he also worked for its student health

In Memoriam

service. After three years Crawford returned to the Washington area where he practiced OB/GYN until 1993 when a severe stroke forced him into retirement. He and wife Rozena relocated to Deltona, Florida, two years later where Crawford served as a pathfinder counselor for Mars Hill SDA Church. He also became a member of the Different Strokes Club, an officer with the Vision Impaired Group, a member of the YMCA Handi-Capable Gym, the Sunshine Center, and the DeLand Activity Center. He continued to be an avid reader, keeping up with current events through Talking Books. Survivors include wife Rozena, three children and one grandchild.

Faculty & Friends

Mrs. Akiko K. Bowers
Pompton Plains, N.J.
May 4, 2007

Mrs. Bowers was the second wife of **John Z. Bowers**, '38. Born in Tokyo, Japan, she graduated from Kobe College before moving to New York City in 1961 to study business at New York University. In 1963, she became the first woman to accept a position with the Japanese ambassador to the United Nations, directing protocol and serving as liaison between the Japanese government and members of the U.N. She met Dr. Bowers in 1969, and they married in 1970. Their mutual love for Japan and Asia led to several years of researching, translating, and editing Dr. Bowers' scholarly works. After Dr. Bowers' death in 1993, Bowers established an endowment fund at the Medical Alumni Association to support its collection of medical artifacts which now bears her name. In 2001, she created the John Z. and Akiko K. Bowers Distinguished Professor and Dean's Chair at the medical school. Bowers was an accomplished harpist and classic traditional dancer. She was a patron of the Metropolitan Museum of Art where she donated priceless family

heirlooms. In 1999, she published her memoir in Japan entitled *East and West, When the Twain Meet—A Life*.

Dr. Nathan H. Carliner
Baltimore
May 29, 2007

Dr. Carliner was a professor of medicine and attending cardiologist. His interest in clinical research enabled him to author numerous scientific publications and to participate as a member of the editorial board of the *Journal of the American College of Cardiology*. Carliner's interest in clinical pharmacology led to the formation of the bi-weekly electrocardiography conference that continues at Maryland. Born in Mount Washington, Carliner earned his bachelor's degree at Johns Hopkins University before graduating from its medical school in 1965. He served as a major in the United States Army Medical Corps in Virginia and later in Vietnam, where he was the chief of the medical service at the Third Mobile Army Surgical Hospital. Carliner finished his fellowship in cardiology at Emory University in Atlanta before moving back to Baltimore and joining Maryland's faculty. He quickly became

a full professor and served as associate chief of cardiology and director of non-invasive cardiology services.

Bruce Line, MD
Cockeysville, Md.
April 17, 2007

From 2000 until his death in April, Dr. Line was a Maryland cancer researcher, professor in the department of diagnostic radiology, and director of nuclear medicine. His most recent work focused on molecular targeted therapy as part of the American-Russian Cancer Alliance. Born in Philadelphia, Line was a graduate of Franklin and Marshall College in 1969, and he earned a medical degree from Albany Medical College in 1973. He joined the National Institutes of Health in Bethesda as a clinical associate in nuclear medicine in 1974, and from 1975 to 1981 was a clinical associate and research analyst with the NIH's national heart, lung and blood institute. From 1981 until joining the faculty at Maryland, Line served as professor of radiology and of cell biology and cancer research at the Albany Medical Center. He is survived by wife Beth and two children.

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Graduates enjoy a lighter moment at the medical school convocation on May 18th. Included are Ashish A. Bagal, Amy R. Auerbach, Ishita Arya, Arleen A. Allen, and Janell A. Alden, and Temilolu O. Aje.

Bulletin

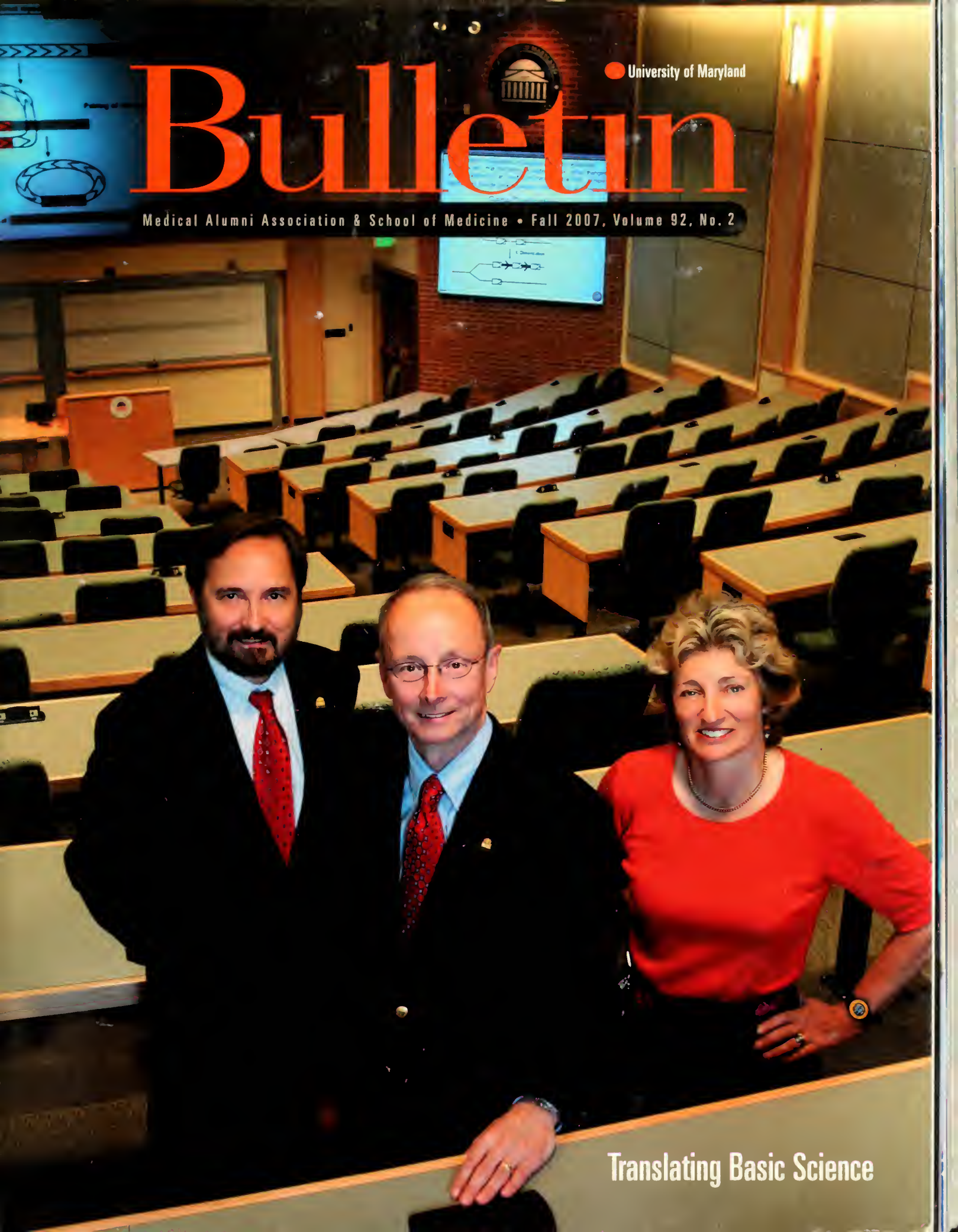
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Translating Basic Science



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Bulletin

University of Maryland

Fall 2007



Protogoras N. Cutchis, '83 (profile on page 34)

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On the cover: Maryland's three newest basic science chairs: Drs. James Kaper, Richard Eckert, and Meredith Bond in Taylor Hall

features

Translating Basic Science

How Bench to Bedside Progress is Bringing Maryland into the Spotlight

The technology explosion of the late 20th century paved the way for extraordinary advances in medicine. Now, with research funding on the decline, basic scientists and clinicians at medical schools are being forced to re-evaluate the way they conduct their business and teach their students. At Maryland, three relatively new department chairs in the basic sciences view these changes in the landscape as opportunities rather than obstacles.

10

The Medical Alumni Association Honor Roll

Each year we recognize the thousands of alumni, faculty, and friends who supported the medical school with gifts to the Medical Alumni Association's annual fund during the prior fiscal year. In this issue we pay tribute to those whose gifts were received between July 1, 2006 and June 30, 2007. Our honor roll listing also includes members of the John Beale Davidge Alliance, consisting of the school's most generous donors.

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Alumnus Profile: Stephen A. Valenti, '78

Changing Beats

Raised in a family with a musical background, Stephen A. Valenti, '78, strummed his way through school by opening for musical groups like Three Dog Night and Buddy Rich. After earning his medical degree, he developed an interest in another beat—cardiac rhythms and heart sounds. Today, on the verge of celebrating his 30th medical school reunion, Valenti enjoys the best of both worlds.

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Alumnus Profile: Protogoras N. Cutchis, '83

No Appetite to Tag Along

During childhood, "Tag" Cutchis, '83, began tinkering with electricity, and he developed a number of gadgets ranging from a color organ to a stereo power amplifier. His work continues today as a senior engineer in the national security technology department of the Johns Hopkins University Applied Physics Laboratory, after earning a medical degree at Maryland and a master's degree in electrical engineering. But these gadgets being developed have a slightly different mission: improving and saving lives.

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Recollections

The editorial board is proud to present Volume 92, Number 2 of the *Bulletin* magazine, the oldest medical alumni association publication in the United States. In addition to serving as the medical school's primary communications link with alumni since 1916, the magazine serves as a bridge connecting us to our past. This section of the magazine features snippets of past issues, offering a look at our medical school 25, 50 & 75 years ago.

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Dean's Message

I was pleased to celebrate in August my first anniversary as dean of the University of Maryland School of Medicine. In the year that I have been here, I have been gratified to learn that this medical school is just as exceptional as I thought it was when I accepted the

position two summers ago.

What's on my mind this fall are the many exciting ways that alumni can help position the University of Maryland School of Medicine for continued success. I encourage each and every alumnus and alumna to become more actively involved in our academic medical community, through grand rounds, lectureships, community outreach initiatives, mentoring relationships, or any other creative ways. Your knowledge and experience as lifelong physicians, scientists and allied health professionals can have a dramatic impact upon the lives of our aspiring young health and science professionals.

I would also like to invite you to visit our campus to see how we have grown and will continue to expand the physical facilities. We have added significant new research space and dramatically upgraded our teaching facilities as a result of very generous philanthropic contributions, including gifts from **Elizabeth Hosick, '66**, and **Irving Taylor, '43M**, and his family. These state-of-the-art facilities will play a key role in our ability to attract and retain the exceptional faculty members and outstanding medical students who comprise our dynamic learning community.

If you cannot visit our campus in person, I would suggest that you take



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs

The John Z. and Akiko K. Bowers
Distinguished Professor and Dean

a look at our website, <http://med-school.umaryland.edu>, which is filled with interesting stories about you, our alumni, as well as faculty, staff and students, and the many exciting programs and initiatives that are currently underway. I am certain that you will find our website informative and topical. You may even find that there are faculty members at the medical school who are conducting research in a discipline of personal or professional interest to you. I would like nothing more than to expand the breadth and scope of our work by developing even more collaborative relationships with our alumni.

Over the last year you have received my vision letters on research, education, clinical care and finance/philanthropy. I shared these with you so that you could see that the medical school has ambitious, yet attainable goals, and in the hope that you are willing to partner with me in my effort to attain these goals. I welcome your feedback and suggestions.

I have kept you informed on the exciting bicentennial events we've had over the last nine months. We have just three more months left in our year-long bicentennial celebration and only a few more events. This month the School of Medicine is the sole sponsor of Garrison Keillor's *A Prairie Home Companion* at the historic Hippodrome Theatre—a live national performance. In November we will host a "Research Expo" for journalists and science writers in an effort to introduce them to some of our internationally acclaimed researchers and their groundbreaking work, as well as to help them understand the science behind the headlines. We are still planning our final event, to be held on or around December 18, the day the legislature signed the bill that created the College of Medicine of Maryland in 1807.

I was pleased to see some of you at my first State of the School Address on September 25th. The annual address was my opportunity to highlight the milestones we achieved together in the last 12 months and to touch on the challenges that lay ahead.

No great institution can succeed without the ongoing generous support of its alumni, faculty and friends. I have been overwhelmed by the philanthropic support that you have made to this institution during my first year as dean. I can assure you that your contributions have a profound effect upon our curriculum, research efforts and our community outreach initiatives. I hope that, together, we can continue to collectively raise our sights, and position this institution for another 200 years of excellence. I look forward to seeing you on your next visit to campus! ■

recent events



The Class of 2009

Juniors Receive Sendoff to Rotations

The class of 2009, having completed two years of the basic sciences, have begun their third year of rotations. A simple but elegant Student Clinician Ceremony was held in Davidge Hall on July 5 to celebrate the occasion. The event, organized by the office of student affairs and sponsored by the Medical Alumni Association, included a welcome by **SOM dean E. Albert Reece, MD, PhD, MBA** and a speech by **Robert Shin, MD**, assistant professor in the departments of neurology and ophthalmology. Then the 150 students received their gold pins and recited the Student Clinician Oath. **Donna L. Parker, '86**, associate dean for students affairs, served as master of ceremonies.

The Student Clinician Oath

As I begin this next stage of my medical education, I pledge to act in the best interests of my patients and to serve them with integrity, compassion, and respect for their beliefs and circumstances. In doing so, I will remember that warmth, empathy, and the art of medicine are as vital as the scientific knowledge to the care I provide as a healer, educator, and advocate. To these goals, I dedicate myself in the honorable traditions of the School of Medicine.



SOM dean E. Albert Reece congratulates Aharon Cooper, '09, as he receives his gold clinician pin



MAA Welcomes Class of 2011

The class of 2011 reported to campus on August 9 for three days of orientation before the formal start of the fall semester. The program concluded with the annual pizza party in Davidge Hall, sponsored by the MAA. This year's class of 160 was selected from a pool of 4,503 applicants and, similar to every class since 1996, is predominantly female (58%). Students range in age from 21 to 35 and come to the medical school from 67 different colleges and universities. The class averaged 31 on the MCAT and posted a 3.67 GPA.

recent events

NMA Gathers in Hawaii

More than 40 alumni, faculty, and friends of the medical school gathered for a reception during the annual meeting of the National Medical Association in Honolulu on August 6. The event was staged by the MAA and co-hosted by Dean Emeritus **Donald E. Wilson, MD, MACP**, and MAA regional vice president **Robert M. Phillips, '82**.

Cina Claims Woodward Faculty Prize

Majid E. Cina, '02, assistant professor of medicine in the division of general internal medicine, was named recipient of the second annual Theodore E. Woodward Faculty Prize in Medicine. The award is given for recognition of exemplary teaching and patient care.

Woodward, a member of the class of 1938, served on Maryland's faculty from 1948 to 2003 and was chairman of the department of medicine from 1954 to 1981. He was recognized as a superb teacher, master clinician, distinguished scientist, and caring physician. The award was established by family, friends, former students, and colleagues after Woodward's death in 2005.



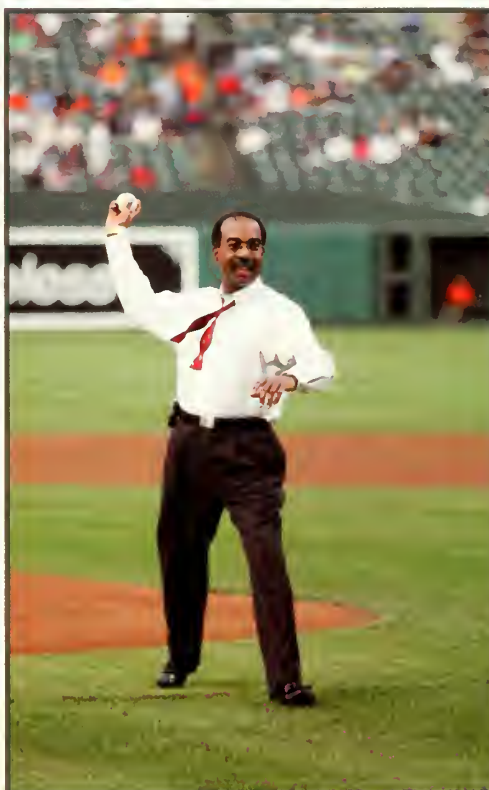
Majid E. Cina, '02



Participants at the NMA reception included Robert M. Phillips, '82; Mrs. Patricia Wilson, dean emeritus Donald E. Wilson, MD, MACP; Eve J. Higginbotham, MD, dean of Morehouse School of Medicine and former chair of Maryland's department of ophthalmology; Elijah Saunders, '60; Mrs. Sharon Saunders; and Susan Y. Neal.

Orioles Mark School's Bicentennial Anniversary

The Baltimore Orioles recognized the medical school's 200th birthday on September 6, welcoming faculty, staff, students, and alumni for a "Bicentennial Night at Camden Yards." Hundreds turned out for the event, including a pre-game ceremony with **SOM dean E. Albert Reece, MD, PhD, MBA**, tossing the ceremonial first pitch. The league-leading Boston Redsox played spoilers, however, beating the O's 7-6.



Dean Reece throws the ceremonial first pitch

Departures



Donald E. Wilson, MD, MACP

Former dean **Donald E. Wilson, MD, MACP**, was named senior vice president for health sciences at Howard University. The appointment was effective August 1, 2007. Wilson, who served as Maryland's 29th dean from 1991 to 2006, is responsible for the overall management and leadership of

Howard's health sciences clinical and research enterprise, hospital, the college of medicine, the college of dentistry, the college of pharmacy, nursing and allied health as well as the health sciences library.

Since retiring in 2006, Wilson has served as director of Maryland's program in minority health and health disparities, and he plans to continue in this capacity on a part-time basis.



J. Glenn Morris Jr., MD

J. Glenn Morris Jr., MD, former chairman of the department of epidemiology and preventive medicine, was named director of the emerging pathogens institute at the University of Florida in Gainesville. Morris served as department chairman beginning in 2000 and was head of the division of hospital

epidemiology from 1996 to 2000. For the past year he served as interim dean for a newly created school of public health. The effort to establish the school, however, has been temporarily suspended and will be re-examined again at a later date. As director of the University of Florida's emerging pathogens institute, Morris hopes his experience in public health and policy will bolster Gainesville's \$50 million institute.

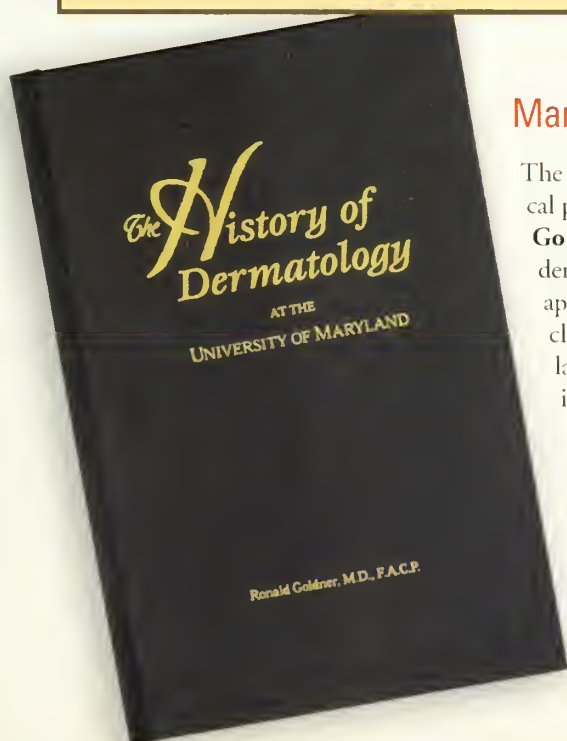
Maryland's History of Dermatology

The department of dermatology has published a historical piece on its famed department. Written by **Ronald Goldner, '65**, the 73-page book traces the teaching of dermatology at Maryland as it formally began with the appointment of **Isaac E. Atkinson**, class of 1865, as clinical professor of dermatology in 1879. Atkinson later served as dean from 1890 to 1893. The book is being distributed to all faculty and many of Maryland's dermatology alumni. Goldner, who became clinical professor of dermatology and assistant director of the dermatology residency program in January, spent several years compiling the material and writing the piece. ■

Contributors to News & Advances include:

Sharon Boston
Rebecca Ceraul
Ellen Beth Levitt
Larry Roberts
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Karen Warmkessel

Photos by John Seabode,
Mark Teske



Gates Grant to Fund Research for HIV Vaccine

Governor's Press Office



University System of Maryland chancellor William E. "Britt" Kirwan, Maryland governor Martin O'Malley, Robert Gallo, MD, and SOM dean E. Albert Reece, MD, PhD, MBA at the announcement in Annapolis

Maryland's Institute for Human Virology (IHV) has received a \$15 million grant from the Bill & Melinda Gates Foundation to further develop a vaccine that, in early studies, has shown potential to provide broad protection against HIV, the virus that causes AIDS.

The five-year grant is part of the Gates Foundation's Collaboration for AIDS Vaccine Discovery, an international network of research consortia focused on accelerating the pace of HIV vaccine development.

"This grant reinforces what Marylanders have long known: that our state is a world leader in biotechnology, and more importantly, a leader in finding a vaccine that can help the thousands of people affected by the HIV/AIDS epidemic," said Maryland governor Martin O'Malley.

"Our ultimate goal is a vaccine that will prevent HIV transmission. In

early studies, this vaccine has already demonstrated that it has promise to produce an immune system response to various HIV strains. We are very happy that the Gates Foundation is supporting our efforts," said **Robert C. Gallo, MD**, the founder and director of IHV, who co-discovered HIV and developed the first HIV blood test.

HIV's ability to mutate rapidly into numerous strains has long frustrated efforts by the medical research community to develop an effective vaccine. Previous attempts by others to develop a vaccine have been unsuccessful because they were unable to stop a broad range of HIV strains. IHV scientists are encouraged by their potential vaccine, and the Gates Foundation grant will allow IHV scientists to conduct further studies on their vaccine so that they can understand better how the vaccine works against HIV.

The Gates grant comes on the heels of a \$43 million grant from the President's Emergency Plan for AIDS Relief. The funding will be used to further the institute's AIDS Care and Treatment in Nigeria project by providing immediate care and treatment to 48,000 patients and expanding HIV-testing and counseling to an additional 100,000 Nigerians over the next year. Nigeria ranks third in the world for total number of persons infected with HIV—the virus that causes AIDS.

The IHV was founded in 1996 as part of the University of Maryland Biotechnology Institute. Its oversight was transferred to the medical school on July 1. ■

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Home Intervention Program Effective at Mitigating Effects of FTT



Maureen Black, PhD

Failure to thrive (FTT), a condition that affects about five out of every 100 infants and toddlers in the United States, can impact a child's stature and school

performance for up to eight years after the diagnosis. But researchers at Maryland have found that a home intervention program during the first year of life is successful at mitigating the effects of FTT as the child gets older. The study, published in the July 2007 edition of *Pediatrics*, found that children with FTT who received home visits from intervention specialists performed better in school, were better behaved and weighed about five pounds more at age eight than children with FTT who didn't receive home visits.

"Pediatricians and other physicians across the United States use standardized growth charts to track the growth and development of infants and toddlers," says **Maureen Black, PhD**, professor of pediatrics and director of the growth and nutrition clinic at the University of Maryland Hospital for Children. "Such children with failure to thrive don't keep pace in terms of height and weight and usually fall under the fifth percentile on the growth chart. This condition often begins during the second six months of life."

Numerous medical conditions can cause FTT, including prematurity, reflux, food allergies and metabolic disorders. But the majority of children seen in the clinic who suffer from FTT don't have an underlying medical condition. "Medical problems make up a small percentage of FTT cases,"

says Black. Other causes include a lack of access to adequate food, irregular or inconsistent mealtime routines, competing activities that interfere with meals, children with low appetites, and children's delayed development in transitioning to pureed and solid foods.

FTT occurs among children of all economic classes, but the prevalence is highest among children in low-income families. According to Black, many children with FTT experience growth and cognitive recovery by school age, but they continue to be at risk for poor growth, low academic achievement and poor academic work habits that are likely to undermine future performance in school.

In 1989, Black and colleagues recruited 249 children from pediatric primary care clinics that serve low-income areas of Baltimore to participate in the study. Approximately 130 of those children suffered from FTT not caused by a medical condition, and 119 served as a comparison group with average growth. Children with FTT were randomly assigned to one of two groups. Both groups received clinical intervention for FTT in the clinic. The home intervention group also received that service for one year. The control group did not receive home intervention.

The home intervention was delivered by three specialists employed by PACT, a community agency specializing in early intervention. One-hour visits were scheduled weekly for one year and focused on supporting the care giver's personal, family and environmental needs, modeling and promoting positive parent-infant interactions and problem-solving strategies regarding personal, parent-

ing, and children's issues. The home visitors did not focus on nutrition or feeding behavior and did not weigh the children. Participants from the FTT groups and the comparison group returned to the clinic at four, six, and eight years of age for evaluations.

"At the end of the first year, infants who received home visits had better development than those who had not, their care givers were more nurturing, and their homes were more stimulating," says Black. "At that point, their growth was no different from those children with FTT who had not received home visits."

Black examined the study group again at age eight. She found that home intervention had benefits that lasted until at least age 8. Children with FTT who had not received the home intervention were shorter, thinner and had lower arithmetic scores than the comparison children. Thus, early home intervention protected the children with FTT from poor growth and school problems. In addition, children with FTT who received home visits were better behaved in school than those who had FTT and had received no home interventions. This study was supported by the Maternal and Child Health Research Program at the U.S. Department of Health and Human Services. ■



Brain Regions Responsible for Decision Making Permanently Damaged by Cocaine



Maryland researchers have found that cocaine exposure in rats causes permanent damage to a part of the brain responsible for judgment and learning new behaviors. The results may shed light on why drug addicts often relapse after being treated for their addiction.

Researchers tested whether rats that had been exposed to cocaine for several weeks could learn to distinguish between two different odor cues—one that gave them water laced with sucrose and the other which was water laced with bitter tasting quinine. “We then reversed the two odor cues; so the odor predictive of the sugar reward became predictive of quinine and vice versa. In earlier experiments, normal rats have been able to learn this new association,” says **Geoffrey Schoenbaum, MD, PhD**, an assistant professor of anatomy and neurobiology at the medical school and lead researcher on the study. “We found that rats exposed to cocaine were much slower than non-drug exposed rats at changing their behavior after the reversal.”

Similar deficits previously have been shown in human cocaine addicts and are thought to reflect the poor decision-

making that is characteristic of addiction. The researchers found that this deficit was associated with declines in flexible signaling in the basolateral amygdala. Rather than being able to process new information, as in normal animals, electrical signaling in the basolateral amygdala continued to provide the old odor association for reward and punishment in the cocaine-treated rats.

“The drug-exposed rats couldn’t change their behavior because neurons in the amygdala were essentially still signaling what they learned before reversal,” says Schoenbaum. “Flexible signaling in the amygdala is compromised by previous exposure to drugs.”

A second experiment confirmed that the deficit was

fixed when the researchers destroyed the basolateral amygdala. “Remarkably, lesions that destroyed these neurons fixed the reversal deficit,” says Schoenbaum. “The drug-exposed rats with lesions in the amygdala performed as well on reversals as rats that were never exposed to cocaine.”

“It’s clear that exposing rats to cocaine can cause fundamental deficits in adaptive decision-making,” says Schoenbaum. “These results are important in understanding how addictive drugs change the brain and also provide information that may lead to potential therapeutic agents for the treatment of addiction.”

Funding for Schoenbaum’s research was provided by the National Institute on Drug Abuse. The study was published in *Nature Neuroscience*. ■



Geoffrey Schoenbaum, MD, PhD

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By Caelie Haines

Translating Basic Science



How Bench to Bedside Progress is Bringing Maryland into the Spotlight

Discoveries are the life blood of basic science, which aspires to solve the mysteries of disease at the deepest molecular level, and then translate those answers into vaccines, drugs, and other kinds of treatments to be utilized in clinical medicine. The University of Maryland School of Medicine is building an international reputation in this field, thanks in no small part to its three newest basic science chairs, Drs. Meredith Bond, James Kaper, and Richard Eckert.

Photographs by Rick Lippenholz

Meredith Bond, PhD, whose primary research delves into the science behind heart failure, has been heading the department of physiology for four years. James Kaper, PhD, who specializes in the molecular pathogenesis of infectious diseases, became the chair of the department of microbiology & immunology in February, after more than 20 years as a professor and prolific researcher at the school. Richard Eckert, PhD, whose work focuses on understanding how skin cells function to protect people from illnesses and how those cells are altered during disease states such as skin cancer, was appointed chair of the department of biochemistry & molecular biology in November 2006.

As they gather for a roundtable discussion of the importance of science in medicine, the three share an easy camaraderie, a connection they've cultivated since Eckert's arrival. "The basic science chairs have started going out every month or so for dinner," explains Kaper. The group, which also includes Michael Shipley, PhD, the chair of the department of anatomy and neurobiology, and Edson Albuquerque, MD/PhD, chair of the department of pharmacology, "discuss common problems and experiences," according to Kaper.

One of the biggest issues they all face is funding their research. Although grants to the medical school have increased every year, getting those research dollars has become more and more competitive. The NIH research budget is diminishing, as is the state and federal government's

"The spigot has been turned off, and the money available to support original ideas and allow them to grow to fruition is being stifled."

willingness to finance experimental science. This situation could have a devastating effect on the field in the very near future. "The NIH budget is being cut outright in terms of research dollars, and then we're losing purchasing power because of inflation, and along with reducing the things that we've done, it's also really turning off the next generation of students," laments Kaper. "We may be losing a great number of very talented researchers in the future who see how their mentors struggle and sweat and worry about grants, and that's not appealing. On one hand there's the excitement of doing the science, but then they also see the frustration and angst about grant support, and that's sure to be a problem in the future. It's already a problem now."

Bond agrees. "The spigot has been turned off, and the money available to support original ideas and allow them to grow to fruition is being stifled," she says. "So science can't move on as quickly as it would like, because the funds aren't available. I don't think anybody is advocating funding research that is mediocre. But we're at the point where we need to find ways to fund research that is truly outstanding. Because a number of very bright people with spectacular ideas are not able to take the next step and develop those ideas into significant discoveries."

There are discoveries with great potential to be found in every basic science department, but Kaper is especially excited about potential success in the field of vaccine development. "There may be a possibility of vaccines to treat non-infectious diseases [such as cancer]," he explains. "Dr. Scott Strome, who was recently profiled in the *Bulletin*, is also working on a therapeutic—rather than preventive—application for vaccines. As we know more and more about the basic science of underlying diseases, hopefully we'll learn enough to take early steps towards preventing disease, as opposed to having to take later steps for therapeutic treatments."

"So our goal is truly personalized preventive medicine."

Bond concedes that disease prevention would be ideal, but "that requires resources and a little bit of a different philosophy," she says. "In the past we've had clinical trials with patients who are symptomatic. But we've got to step back before that to people who are at risk but are not symptomatic. Those individuals have to be followed a lot longer in a clinical trial, of course, but they're much less likely to be critically ill for a much longer period of time. So our goal is truly personalized preventive medicine. I think a lot of people are moving in that direction, but there will be a few little hiccups along the way. And there will, of course, be some financial needs in order to move that along a little bit."

With the aforementioned cuts in NIH research funds and other government contributions, those financial needs will have to be met in other ways. "Philanthropy becomes all the more important to fill in those gaps."

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Dr. Richard Eckert

With the aforementioned cuts in NIH research funds and other government contributions, those financial needs will have to be met in other ways. "Philanthropy becomes all the more important to fill in those gaps," Kaper declares. "Compared to some other state universities, we get about half the money per capita per medical

student than most of our peer institutions. This institution does not have a long history of philanthropy, but one of the great things Dr. Wilson did when he became dean was really focus on fund raising. He really did a terrific job, but much more is needed, and Dr. Reece is certainly carrying on with that tradition. But it's so important—for the advancement of the whole institution, not just the basic sciences."

Helping its case is the fact Maryland is attracting top students and professors because of its excellence in translating basic science into clinical applications. The school boasts a long tradition of "bench to bedside" excellence because its physicians and scientists are within the medical school, which has a strong partnership with the University of Maryland Medical Center. "I think there is a big advantage being at a medical school," proclaims Bond. "There are a number of people who are doing very important basic science on a number of undergraduate campuses separate from a medical school. But they have somewhat of a geographical hurdle when taking that to the next step. They don't run into the clinicians in the corridors, and they don't get a chance to see as easily as we do what problems need to be investigated and how we can best interact with clinicians. At research institutes that don't have direct interaction with hospitals, you often meet people who have a yearning to be on a campus like this. So it's an attraction for people to come here, the fact that there is such a rich clinical environment."

"... now there's much more integration between basic scientists and clinicians, in terms of trying to apply and translate basic properties and understandings into an understanding of disease physiology and then into bringing the diseased patient back to health."

While Eckert may joke that bench to bedside progress takes "thousands of decades," he agrees that it is critical to the school. "I think the most outstanding institutions right now are investing in parallels in basic and clinical science, because there's clearly a realization that the strongest medicine, the strongest advances, come out of both schools," he says. "We're well on the way to doing that kind of thing. I'm the newest here, but if you look at the way the school's progressed, there's really been an investment in bringing in investigators who can do good fundamental science, especially in the basic area, but also in the clinical areas. That's fueling our rising profile."

However, it's usually the clinical science that gets the most attention—and money. "From the point of view of philanthropy, basic science is just as critical to the advancement of medicine as what people are doing in the clinics with patients every day," says Bond. "But it's sometimes difficult for us to be able to communicate that effectively to people outside these walls. However, there is plenty of evidence that basic discoveries that initially appear not to have any obvious clinical advantage have enormous clinical impact down the line. So it's up to us to be able to communicate the importance of that."

Of course doing so isn't easy because of the unpredictable

nature of basic science discoveries. "There's no easy, predictable path, and there are sometimes dead ends," Bond concedes. There are also surprising discoveries.

"There is a worm that actually revealed how cells normally die," Eckert explains. "And all those genes are found to be present in humans. So it's opened up a whole area describing how cells are remodeled during development and are naturally taken out of the body by these processes and these genes, which is particularly of interest in cancer development. The whole of what is called apoptotic cancers were discovered in a worm. And it's washed over the rest of biomedicine."



Dr. Meredith Bond

People don't really appreciate that unless we tell them. So [to get the word out] you take a few good examples and go out and tell people how what we do makes an impact."

One area in which basic science has had an amazing impact is the field of recombinant DNA. "The whole genetic revolution, in terms of genetic engineering, is based on basic curiosity about little viruses that affect bacteria," Kaper explains. "These are viruses that don't affect humans, but they cause disease in bacteria. That's not much of a tragedy for the bacteria, but looking at the phenomena, how some viruses can infect one bacterium but other viruses couldn't affect the same bacterium, scientists discovered that these organisms and bacteria had enzymes that restrict what viruses can do. That was purely a laboratory phenomena initially, but from that came the discovery of restriction enzymes, which allow us to now do cutting and splicing of DNA. That was a very fundamental, very basic observation that had unbelievable consequences."

Such important discoveries have forced basic science to re-evaluate the way it works. "If you go back 20 years, you could focus on a series of technologies in your own lab, and you could make discoveries, and it was fine," says Eckert. "But then there was a technology explosion. Jim alluded to the techniques of modern molecular biology, which allowed us to do things that were just unfathomable. That changed things amazingly over only two years. So you went from that to a level where all these things were automated, to some extent, and then new technologies came on board to give you a better look at proteins. And then you could scan the whole genome at a time. And then the whole genome was known. So suddenly the contributions that you make are not only fundamentally in your lab, in your focus; they're expanding in a broader way."

Kaper agrees. "The very traditional role of basic science used to stop at elucidating basic mechanisms but not going beyond, except for maybe going to the next basic mechanism," he says. "But now there's much more integration between basic scientists and clinicians, in terms of trying to apply and translate basic properties and understandings into an understanding of disease physiology and then into bringing the diseased patient back to health."

This integration between the sciences is forcing a change in the way basic science is taught. "There are a lot of didactic courses over the first 18 months or two years of medical school, where students learn the course material," Bond explains. "But the one thing that a good graduate student also must learn to do is to be collaborative from early on. It's our job as mentors to encourage that. So our students can go to another lab, and sometimes even be the glue between two labs, and learn a new technique, look at a different way of doing things and be able to incorporate that into what they're doing. The old days of the student just sitting at the bench doing a confined experiment are gone. The pace and the competition are just too rapid."

Eckert agrees. "Students now are trained more broadly in many ways, out of necessity," he says. "We've developed larger, programmatic, 'umbrella' programs that are designed to challenge students more broadly

"... the one thing that a good graduate student also must learn to do is to be collaborative from early on. It's our job as mentors to encourage that ... The old days of the student just sitting at the bench doing a confined experiment are gone. The pace and the competition are just too rapid."

and in different disciplines. Because the range of technologies we can now bring to bear—my lab or any other lab can't match it alone. You have to find people to help you address issues. And when you do that, things progress much faster, and there's more break-

throughs in terms of disease. I think [basic scientists] are going to be increasingly working as teams to conquer things."

Bond is looking forward to this trend toward teamwork in science. "It's going to allow us to attack thorny and difficult issues more easily, if we truly can work as a team," she believes. "We'll be bringing to bear on a problem a chemist and a bioengineer, plus a basic scientist and a clinical investigator, putting all of their expertise together. The challenge will be to effectively communicate amongst all those people with diverse backgrounds. Challenges are opportunities," she says with a smile. 📷



Dr. James Kaper

Medical Alumni Assoc Honor Roll Honor Roll 2007

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The 1807 Code is a collection of documents that are the foundation of the Medical Alumni Association. It includes the original charter of the Association, the original constitution, and the original bylaws. It is a historical document that is of great interest to all members of the Association.

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Dwight N. Fortier
George E. Gallahorn

CLASSES WITH THE MOST DAVIDGE ALLIANCE MEMBERS

1975	29
1945	19
1970	19
1956	16

1967

Henry Feuer
Robert O. France
Stuart S. Lessans
Joseph C. Orlando
John R. Rowell

1968

William N. Goldstein
James G. Kane
Charles J. Lancelotta
Charles S. Samorodin
Howard Semins

1969

Mark M. Applefeld
George R. Brown
Graham Gilmer III
Arnold Herskovic
O. Lee Mullis
Alan J. Segal

1970

Arthur O. Anderson
Francis A. Bartek
John P. Caulfield
Leo A. Courtney III
Michael A. Grasso
Stephen B. Greenberg

Louis S. Halikman
Dennis J. Hurwitz
James S. Murphy
Edward J. Prostic
Norman W. Taylor

1971

Charles F. Hobelmann Jr.
Jack S. Lissauer

1972

Robert J. Bauer
Mark J. LeVine
Peter D. Vash
Dean L. Vassar
Brian J. Winter
Celeste L. Woodward

1973

Raymond D. Drapkin
G. Reed Failing Jr.
Nelson H. Goldberg
David J. Greifinger
Steven J. Gross
Bernard G. Milton
Ira M. Stone
T. S. Templeton II
Harold Tucker
Roberta S. Tucker
Charles B. Watson

1974

Gary D. Boston
James Jay McMillen
Denis A. Niner
W.R. Weisburger

1975

Bruce E. Beacham
L. Thomas Divilio
Gary F. Harne
Darvin Hege
Charles F. Hoesch
Donald S. Horner
Thomas F. Krajewski
Charles E. Manner
Scott M. McCloskey
Frank H. Morris
Nicolette Orlando-Morris
Harvey B. Pats
Kathryn A. Peroutka-Szarko
Jeffrey L. Quartner
Sandra D. L. Quartner
Robert E. Roby
Michael B. Stewart

1976

Christopher Feifarek
Ellen B. Feifarek
Jose R. Fuentes
D. Stewart Ginsberg
Bradford A. Kleinman
James E. Mark
Lee S. Simon

1977

Elwood A. Cobey
Frederic T. Farra
Alan S. Gertler
S. D. Lincoln
Douglas N. Stein
Stuart A. Zipper

1978

Donald T. & Carolyn F.
Weglein

1979

Peter E. Godfrey
Stephen R. Izzi
G. S. Malouf Jr.
Linda D. Oaks
Peter E. Rork
Perri Laverson Wittgrove
H. Russell Wright Jr.

1980

Robert R. Artwohl
Robert P. Cervenka
Jane L. Chen
Craig A. Dickman
Milford M. Foxwell Jr.
Richard M. Galitz
Jeffrey A. Kleiman
Susan L. Laessig
Timothy P. McLaughlin
Roger J. Robertson
Roy T. Smoot Jr.
Victoria W. Smoot

1981

Alice Magner Condro
Lawrence A. Galitz
Mark C. Lakshmanan

1982

George E. Groleau
Rebecca Love
Ralph T. Salvagno

1983

Harry A. Brandt
Protagoras N. Cutchis
Harry A. Oken

1984

Roy E. Bands Jr.
Theodore Y. Kim
Brad D. Lerner
Dale R. Meyer
Carole B. Miller
Paul R. Ringelman
Luette S. Semmes

1985

Joanna D. Brandt
Frederick M. Gessner
David A. O'Keefe

1986

Ira Louis Fedder

Barbara Burch Fleming
Dennis Kurgansky
Jeffrey Robert McLaughlin

1987

Stephen L. Houff
G. Michael Maresca
James P. Nataro

1989

Wing C. Chau
David A. Gnegy
Stephen F. Hatem
Joy L. Meyer

1990

Jennifer P. Corder

1996

Maureen G. Burdett
Robert F. Corder

1997

Rachel Kramer
Andrew Ward Morton

Physical Therapy Graduates

Howard E. Neels, '63
Richard A. Lopez, '78
Jon C. Waxham '96
Thomas W. Yates '96

Faculty

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Dr. Christopher T. Bever Jr.
Dr. Angela Brodie
Dr. Thomas C. Chalmers
Dr. M. Carlyle Crenshaw Jr.
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Elizabeth Barry
Dr. Bartley P. Griffith
Dr. Eve J. Higginbotham &
Dr. Frank C. Williams
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Dr. Rafael M. Rodriguez
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Dr. Guntant Thaker
Dr. Benjamin F. Trump
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Dr. Debra S. Wertheimer
Dr. Nancy O. Whitley
Dr. John F. Wilber

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Mr. Carlton K. Gutschick
Mr. Gregory F. & Ina Handlir
Mr. Richard Harvey
Mr. Anthony T. Hawkins
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Mr. David K. Shipler
Mr. Richard Singer
Mr. Richard C. Smith
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Participation: 20.00 %
Total Contributions: \$25.00
Average Gift: \$25.00

Meyer G. Miller

1934

Number of Donors: 1
Participation: 33.33 %
Total Contributions: \$100.00
Average Gift: \$100.00

Manuel Levin

1935

Number of Donors: 2
Participation: 50.00 %
Total Contributions: \$325.00
Average Gift: \$162.50

Samuel E. Einhorn
Harold W. Rosenberg

1937

Number of Donors: 4
Participation: 36.36 %
Total Contributions:
\$65,625.00
Average Gift: \$16,406.25

James Frenkil
Lawrence Perlman
Albert Shapiro
Bernhardt J. Statman

1938

Number of Donors: 4
Participation: 40.00 %
Total Contributions: \$1,525.00
Average Gift: \$381.25

Joseph M. George Jr.
W. Lehman Guyton Jr.
Morris W. Steinhilber
H. Leonard Warren

1939

Number of Donors: 3
Participation: 50.00 %
Total Contributions: \$1,100.00
Average Gift: \$366.67

Elizabeth B. Cannon-Hall
Oscar Hartman
Arnold F. Lavenstein

1940

Number of Donors: 4
Participation: 30.77 %
Total Contributions: \$790.00
Average Gift: \$197.50

Irving V. Glick
Luis R. Guzman-Lopez
Benjamin H. Inloes Jr.
Leonard Posner

1941

Number of Donors: 5
Participation: 35.71 %
Total Contributions: \$450.00
Average Gift: \$90.00

Aurora F. Alberti-Gordon
Michael L. DeVincentis
Franklin E. Leslie
Pearl Huffman Scholz
James H. Walker

1942

Number of Donors: 7
Participation: 53.85 %
Total Contributions: \$6,625.00
Average Gift: \$946.43

Robert A. Barthel Jr.
Joseph G. Bird
Theodore Kardash
Patrick C. Phelan Jr.
Louis H. Shuman
Joseph Wallace Jr.
Loy M. Zimmerman

1943D

Number of Donors: 12
Participation: 57.14 %
Total Contributions: \$2,385.00
Average Gift: \$198.75

Frederick B. Brandt
Augustus H. Frye Jr.
Albert Grant
J. Roy Guyther
William M. Harris
Luis M. Isaacs
Elizabeth Acton Karns
Charles A. Kemper
Cliff Ratliff Jr.
Harold Sterling
David Reid Will
Paul R. Ziegler

1943M

Number of Donors: 8
Participation: 33.33 %
Total Contributions:
\$197,880.00
Average Gift: \$24,735.00

Ralph K. Brooks
Harry Cohen
J. C. Matchar
Robert V. Minervini
J. Emmett Queen
Irving L. Samuels
Nathan Sharp
Irving J. Taylor

1944

Number of Donors: 15
Participation: 46.88 %
Total Contributions: \$3,000.00
Average Gift: \$200.00

John M. Bloxom III
Warren D. Brill
Herbert B. Copeland
James H. Feaster Jr.
Wilbur H. Foard
William A. Lampley
Philip H. Lerman
Stuart C. Levine
Sarah Taylor Morrow
William W. Osborne
Michael R. Ramundo
E. Burl Randolph
Harry F. Rolfs
Kenneth W. Wilkins
Stanley N. Yaffe

1945

Number of Donors: 16
Participation: 53.33 %
Total Contributions: \$8,665.07
Average Gift: \$541.57

Thomas G. Barnes II
Benjamin Berdann
Robert F. Byrne
G. R. Callender Jr.
Mary Dorcas Clark
Eugene H. Conner
John M. Dennis
Austin E. Givens
William A. Holbrook
A. P. Kelly Jr.
Daniel B. Lemen
Henry F. Maguire
Allen J. O'Neill
Stanley R. Steinbach
John J. Tansey
O. P. Winslow Jr.

1946

Number of Donors: 21
Participation: 52.50 %
Total Contributions: \$6,650.00
Average Gift: \$316.67

William J. Bannen
Robert E. Bauer
Alfred D. Bonifant
Louise P. Buckner
Sidney G. Clyman
Francis I. Codd
Guy K. Driggs

Joseph S. Fischer
John R. Gamble
Abraham A. Goetz
Charles W. Hawkins
Charles A. Hefner
Erwin R. Jennings
Allan H. Macht
John A. Mitchell
John C. Rawlins
Milton Reisch
James A. Roberts
Frank A. Shallenberger
Clinton W. Stallard Jr.
James A. Vaughn Jr.

1947

Number of Donors: 21
Participation: 52.50 %
Total Contributions: \$7,880.00
Average Gift: \$375.24

Henry V. Chase
B. Stanley Cohen
Irvin H. Cohen
Parker S. Dorman
George W. Fisher
David K. Geddes
Benjamin M. Gold
F. Robert Haase

Leonard H. Golombek
John R. Hankins
Frederick J. Heldrich
R. H. Kaufman
Charles H. Lithgow
Albert M. Powell
Jimmie L. Rhyne
Benson C. Schwartz
John R. Shell
Benjamin K. Silverman
T. C. Siwinski
Frank J. Theuerkauf Jr.
H. G. Walters Jr.
James T. Welborn
Clark Whitehorn
John D. Wilson

1949

Number of Donors: 15
Participation: 46.88 %
Total Contributions: \$6,546.93
Average Gift: \$436.46

Leonard Bachman
Albert F. Blundell
Harry W. Gray
George W. Knabe Jr.
Burton V. Lock
Max J. Miller

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GIFT TOTALS**

1943M\$197,880
1957\$180,438
1937\$ 65,625
1978\$ 64,720
1966\$ 61,582

Robert R. Hahn
Jim Houghton
Joseph F. Lipira
A. R. Mansherger
Anne D. Mattern
George C. Rasch
Joseph Shear
Earle Silber
William H. Stenstrom
Jose G. Valderas
Sydney J. Venable
Robert C. Waltz
John P. White

1948

Number of Donors: 19
Participation: 44.19 %
Total Contributions: \$4,950.00
Average Gift: \$260.53

A. Andrew Alecce
James Bisanar
Elisabeth McCauley Brumback

John H. Panzarella
Howard F. Raskin
Robert R. Rosen
Albert B. Sarewitz
Nathan Schnaper
R. David Schreiber
Meredith P. Smith
Elwin E. Stanfield
Edward W. Stevenson

1950

Number of Donors: 24
Participation: 63.16 %
Total Contributions: \$5,699.50
Average Gift: \$237.48

William A. Andersen
Jay L. Bisgyer
H. H. Bleecker Jr.
I. Guy Chelton
Jerome J. Collier
Miriam S. Daly
Leonard L. Deitz

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Frank T. Kasik Jr.
Hunter S. Neal
Julio T. Noguera
Evangeline M. Poling
Louis F. Reynaud
Virginia Gould Reynaud
Milton R. Righetti
O. Ralph Roth
Morton Smith
Henry H. Startzman Jr.
Elizabeth Stockly
Robert T. Thibadeau
Bate C. Toms
Clifford E. Wilson
Harriet H. Wooten
William H. Yeager

1951

Number of Donors: 18
Participation: 42.86 %
Total Contributions:
\$11,138.70
Average Gift: \$618.82

Solomon Cohen
Winston C. Dudley
Nancy B. Geiler
Dorris M. Harris
David M. Kipnis
Howard C. Kramer
Jack Leibman
K. R. McGrady
Arthur Z. Mutter
Henry D. Perry
Eugene B. Rex
Marvin J. Rombro
Armando Saavedra
John T. Scully
S. Norman Sherry
Edward M. Sipple
R. Kennedy Skipton
Homer L. Twigg Jr.

1952

Number of Donors: 32
Participation: 57.14 %
Total Contributions:
\$12,235.00
Average Gift: \$382.34

Charles B. Adams Jr.
Benjamin A. Addison
Charles G. Adkins
Richard E. Ahlquist Jr.
George C. Alderman
Timothy D. Baker
Andrew Monroe Diggs
Lawrence D. Egbert
Lee W. Elgin Jr.
Jack Fine
Michael J. Foley
Paul H. Gislason
C. Edward Graybeal
William R. Greco
William L. Heimer
Laurel V. M. Hunter
Frank M. Kline
Joseph A. Knell Jr.
Irving Kramer
Morton M. Krieger
Herbert W. Lapp

Charles H. Lightbody
Benton B. Perrv
Jonas R. Rapoport
Malcolm J. Robbins
Bella F. Schimmel
Norton Spritz
Alvin A. Stambler
David R. Tisdal
Bryan P. Warren Jr.
John L. Watters
Howard N. Weeks
Donald A. Wolfel

1953

Number of Donors: 28
Participation: 50.91 %
Total Contributions:
\$54,769.38
Average Gift: \$1,956.05

Scott B. Berkeley Jr.
Robert Berkow
Samuel Blumenfeld
Joseph R. Bove
Thomas J. Burkart
Walter H. Byerly
Charles F. Carroll Jr.
Sylvan Frieman
John W. Heisse
Thomas F. Herbert
Charles F. Hess
William L. Holder
Werner E. Kaese
William N. Karn Jr.
Capt. Robert Kingsbury
William S. Kiser
Benjamin Lee
Herbert Leighton
Rafael Longo
John W. Metcalf
James E. Might
Reverend Leslie R. Miles Jr.
Richard E. Schindler
Robert T. Singleton
W. Meredith Smith
Karl H. Weaver
Joel S. Wehster
Israel H. Weiner

1954

Number of Donors: 34
Participation: 55.74 %
Total Contributions:
\$11,950.00
Average Gift: \$351.47

Arthur Baitch
George Bauernschub
Anthony A. Bernardo
Edwin H. F. Besson
Herbert L. Blumenfeld
Stuart M. Brown
Morton J. Ellin
Norman Forrest
Richard L. Fruth
Charles J. Hanmer Jr.
John F. Hartman
James W. Hayes
William M. Headley
Robert C. Holcomhe
Thomas E. Hunt Jr.
Edward S. Kloor Jr.

Herbert J. Levin
Hilbert M. Levine
Moses I. Natzinger
Gerald F. Nangle
Joseph J. Noya
Jean M. C. O'Connor
David Owens
David H. Patten
Morris Rainess
Bernard R. Shochet
Marshall A. Simpson
Jean B. Smith
Thorlief I. Stangebye
James H. Teeter
Ira N. Tublin
George Wall
Arthur V. Whittaker
Robert E. Yim

1955

Number of Donors: 29
Participation: 48.33 %
Total Contributions:
\$40,026.80
Average Gift: \$1,380.23

Otto C. Beyer
Norman Blankman
Roderick E. Charles
James M. Close
Roger W. Cole
Everard F. Cox
Donald H. Dembo
Henry A. Diederichs
William Dvorine
John A. Engers
Vernon M. Gelhaus
Julian R. Goldberg
Gary S. Goshorn
Henry Booth Higman
William Hollister Jr.
Paul C. Hudson
Walter E. James
Murray M. Kappelman
William P. Keefe
Morton D. Kramer
Violet S. Kron
Norman W. Lavy
Richard F. Leighton
Leonard J. Morse
Paul G. Mueller
Frank R. Nataro
George N. Polis
Joan Raskin
Phillip G. Staggers

1956

Number of Donors: 35
Participation: 53.03 %
Total Contributions:
\$15,840.00
Average Gift: \$452.57

John E. Adams
Robert T. Adkins
Jerald H. Bennion
Robert J. Byrne
Theodore R. Carski
Thomas H. Collawn
Ludwig J. Fegseder Jr.
James T. Estes
J. Henry Hawkins

Robert N. Headley
Webb S. Hersperger
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Ralph T. Hummel
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C. Herschel King
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Joseph G. Lanzi
Mathew H. M. Lee
Gerald N. Maggid
Herbert M. Marton
Joseph S. McLaughlin
John F. Nowell
Clark Lamont Osteon
Marvin S. Platt
Richard L. Plunh
Irvin P. Pollack
G. Edward Reahl Jr.
Harold I. Rodman
Roy O. Shauh
Virginia T. Sherr
W. A. Sinton Jr.
George A. Sowell
John Z. Williams
Harry D. Wilson Jr.

1957

Number of Donors: 39
Participation: 57.35 %
Total Contributions:
\$180,438.70
Average Gift: \$4,626.63

Stuart J. Abrahams
Charles Allen
Marvin S. Arons
Virginia Y. Blackledge
James K. Bouzoukis
Mary C. Burchell
Anthony J. Calciano
Ronald R. Cameron
Joseph O. Dean Jr.
Vincent J. Fiocco Jr.
Mary Stang Furth
Sebastian J. Gallo
Nicholas Garcia
Allen S. Gerher
Loretta A.K. Gilmore
Anthony F. Hammond Jr.
Paul K. Hanashiro
Harold J. Hettelman
Robert O. Hickman
Richard K. B. Ho
W. F. Holdefer
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George A. Lentz
Paul A. Mullan
Charles R. Opegard
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William J. Rappoport
Richard C. Reba
Marion C. Restivo
Morton W. Shapiro
Walter M. Shaw
K. F. Spence Jr.
Landon Clarke Stout
Nevins W. Todd Jr.
Ray A. Wilson
Leonard M. Zullo

1958

Number of Donors: 29
Participation: 46.77 %
Total Contributions:
\$11,271.27
Average Gift: \$388.66

John T. Alexander
James K. Aton
William G. Bartlett
George R. Baumgardner
Elliott M. Berg
Stuart H. Brager
Gaylord Lee Clark
Robert E. Cranley Jr.
Gilbert B. Cushner
Ronald L. Diener
Stanley N. Farb
Harvey L. Friedlander
Sheldon Goldgeier
Frank P. Greene
Meredith S. Hale
William J. Hicken
Robert H. Johnson Jr.
Richard H. Keller
Howard S. Levin
Arthur Litofsky
William J. Marshall
G. T. McInerney
Joseph A. Mead Jr.
Ernest E. Moore
Antonio Perez-Santiago
Maurice M. Reeder
Lewis H. Richmond
Charles Silberstein
Jerome Tilles
James H. Tyer

1959

Number of Donors: 30
Participation: 56.60 %
Total Contributions:
\$18,450.00
Average Gift: \$615.00

Gerson Asrael
Fred D. Brown
William N. Cohen
John W. Coursey
Joseph L. Darr
Robert J. Dawson
W. F. Falls Jr.
Karl M. Green
Franklin A. Hanauer
James P. Jarboe
August D. King Jr.
Marvin M. Kirsh
Martin S. Kleinman
William Kraut
Richard C. Lang
Donald R. Lewis
Jose Oscar Morales
Morton M. Mower
J. Rollin Otto
Arthur L. Poffenharger
William F. Rhea
Ramon F. Roig Jr.
Howard J. Ruhenstein
C. Edmund Rybczynski
Daniel S. Sax
Arthur A. Serpick

ANNUAL GOLF

Stanley N. Snyder
Beverly J. Stump
Robert J. Thomas
Hans R. Wilhelmssen

1965

Number of Donors: 35
Participation: 53.85 %
Total Contributions:
\$39,785.00
Average Gift: \$1,136.71

Aristides C. Alevizatos
Lawrence F. Awalt
John J. Bennett
Leonard P. Berger
Louis M. Damiano
Julio E. Figueroa
Alvin Glass
I. William Grossman
Wilson A. Heefner
C. Earl Hill
Ronald E. Keyser
Philip M. La Mastra
William E. Latimer
Richard C. Lavy
Damon F. Mills
John C. Morton
Allen R. Myers
Fortune Odendhal IV
Selvin Passen

Jerome M. Reed
Clinton L. Rogers
Jerome Ross
Robert P. Sarni
Elijah Saunders
Bernice Sigman
Emanuel H. Silverstein
George I. Smith Jr.
Morton E. Smith
W. E. Standiford
Martha E. Stauffer
Nathan Stofberg
Merrill T. Syphus
Michael S. Tenner
James A. Yates
Theodore Zanker

1961

Number of Donors: 31
Participation: 44.29 %
Total Contributions:
\$13,915.00
Average Gift: \$448.87

Neil R. Arbegast
George E. Bandy
Carl F. Berner
Oscar H. L. Bing
Anthony R. Boccuti
Thomas G. Breslin
John N. Browell

Milton H. Buschman
Ronald L. Cain
Karl W. Devenport
William H. Dudley
Robert A. Fink
W. R. Fleming Jr.
Carlos E. Girod
Jay S. Goodman
Ronald L. Gutberlet
Samuel H. Henck
Gerald A. Hofkin
Nina Vann Jeanes
Gerald C. Kempthorne
John P. Light
David E. Litrenta
Roger Lee Mehl
Robert J. Myetburg
Kenneth E. Rasmussen
Paul A. Reeder Jr.
David L. Rosen
Richard M. Sarles
Richard F. Schillaci
Larry G. Tilley
George E. Urban Jr.

1962

Number of Donors: 35
Participation: 44.30 %
Total Contributions:
\$24,912.93
Average Gift: \$711.80

Raymond D. Bahr
J. Fred Baker
C. Gottfried Baumann
Merrill I. Berman
Robert B. Bokar
Louis C. Breschi
Bruce D. Broughton
Jon B. Closson
Hammond J. Dugan III
A. Leo Franklin
Herbert Gaither
I. F. Hawkins Jr.
William T. Johnstone
Bernard S. Karpers
Stephen H. Kaufman
Ronald L. Klimes
E. J. Koenigsberg
Paul A. Kohlhepp
Alan B. Lachman
Johnson Ling
Lois H. Love
Kenneth P. Malan
Robert A. McCormick
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Ted C. Patterson
Donald David Pet
Phyllis K. Pullen
John A. Rupke
George C. Schmieler
Gregory J. Sophocleus
W. H. Sothoron Jr.
Osmer P. Steinwald
R. R. Stephenson
Arthur W. Traum
William B. Weglicki Jr.
William H. Wood Jr.

1963

Number of Donors: 31
Participation: 45.59 %
Total Contributions: \$9,160.00
Average Gift: \$295.48

Robert M. Beazley
Lee David Brauer
Nijole B. Carozza
Stephen P. Cohen
Robert E. Dinker
Peter C. Fuchs
Leland M. Garrison
B. Robert Giangrandi
Richard L. Goldman
Michael G. Hayes
Alice B. Heisler
D. Robert Hess Jr.
William H. Howard
Thomas V. Ingleshy
Manfred K. Joeres
Arnold J. Jules
Paul F. Kaminski
William A. King
Merrill M. Knopf
Michael L. Levin
Eric F. Lindstrom
Kenneth G. Magee
Barbara A. McLean
Charles R. Mock
H. Gerald Oster
Mayer Schwartz
Mitchell C. Sollod

Frank J. Travisano
Edward C. Werner
Joseph R. Wilson
Aron Wolf

1964

Number of Donors: 38
Participation: 54.29 %
Total Contributions: \$9,545.00
Average Gift: \$251.18

Sigmund A. Amitin
Michael N. Ashman
L. Bradley Baker
Larry Becker
Rima L. Brauer
Barry M. Cohen
Gustavo A. Colon
Donald A. Deinlein
Ellen Ann Duer
Robert L. Gingell
Marvin N. Goldstein
Albert M. Gordon
Lee E. Gresser
Rosalind P. Kaplan
Matthew L. Kaufman
Mark E. Krugman
Donald T. Lewers
D. V. Lindenstruth
Ruth E. Luddy
Edgar V. McGinley
M. S. Michaelis
Joel S. Mindel
Samuel Muher
David M. Nichols Jr.
Thomas J. Porter
Jose D. Quinones
Jerome P. Reichmister
Allen D. Schwartz
Sidney B. Seidman
Perry S. Shelton
Richard G. Shugarman
Lawrence F. Solomon
Gershon J. Spector
Harold C. Standiford
Robert E. Stoner
Jonathan D. Tuerk
John K. Weagly
Sherwood Ewell Wilson

1965

Number of Donors: 36
Participation: 45.57 %
Total Contributions:
\$11,151.91
Average Gift: \$309.78

Jeffrey D. Aaronson
Verner Albertsen
Brian J. Baldwin
Barbara J. Bourland
Jeffrey L. Brown
Arthur R. Dick
John C. Dumler Jr.
P. Hudson Fesche
Allen A. Frey
Ronald Goldner
R. L. Handwerker
David R. Harris



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Frederick S. Herold
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C. E. Jones
Allen H. Judman
Allan S. Land
William E. Legat
Susan H. Mather
John W. Maun
Carlos R. Mendez-Bryan
Louis O. Olsen
George Peters
Jeffrey E. Poiley
Donald Cornelius Roane
Alfred B. Rosenstein
S. L. Sattenspiel
G. C. Sjolund, Jr.
Larry A. Snyder
John M. Steffy
Louis E. Steinberg
Fred N. Sugar
Elliot S. Tokar
Philip Joseph Whelan
Ann Robinson Wilke

1966

Number of Donors: 44
Participation: 43.14 %
Total Contributions:
\$61,582.80
Average Gift: \$1,399.61

Diane L. K. Acker
Arnold S. Blaustein
Walter M. Braunohler
Mark J. Brown
Charles H. Classen
Philip B. Dvoskin
William D. Ertag
Stuart I. Fine
Richard L. Flax
Dwight N. Fritrier
J. M. France Jr.
George E. Gallahorn
Richard S. Glass
Stephen F. Gordon
Dean H. Griffin
William O. Harrison
Thomas M. Hill
Elizabeth C. Hosick
Franklin L. Johnson
Ronald H. Koenig
Joel A. Krackow
Stephen Machiz
Joseph B. Marcus
William J. Marek
William T. Mason
Carl A. Mattsson
Jane C. McCaffrey
Allan J. Monfried
Carl J. Orfuss
Carolyn J. Pass
Gary D. Plotnick
Samuel F. Press
C. Downey Price
James A. Quinlan
Alfred A. Serritella
Richard D. Shuger
Irvin M. Sopher
James W. Spence
Jack E. Stern

Jeffrey S. Stier
Richard M. Susel
Beresford M. Swan
Henry L. Frattler
Robert R. Young

1967

Number of Donors: 43
Participation: 44.33 %
Total Contributions:
\$21,578.85
Average Gift: \$501.83

Elizabeth A. Abel
William J. Banfield
John A. Bigbee
William L. Boddie
Colvin C. Carter
Gerard D. Dohrzkycki
Francis D. Drake
Perry A. Eagle
Harris J. Feldman
Ira L. Fetterhoff
Henry Feuer
Robert O. France
John Wm. Gareis
Joseph S. Gimbel
James L. Hamby
Arthur L. Hughes
John S. Ignatowski
Charles E. Jordan III
Michael A. Kaliner
Eugene F. Kester
George A. Lapes
Gary M. Lattin
Stuart H. Lessans
Sheldon L. Markowitz
Louis W. Miller
Alan H. Mitnick
Boyd D. Myers
Fred R. Nelson
Edward B. Ostroff
Howard Leon Pelovitz
Jean Posner
Allan S. Pristoop
Ralph D. Raymond
John F. Rogers
John R. Rowell
John C. Sewell
Michael L. Sherman
David M. Snyder
Robert A. Sofferman
John R. Stephens
Michael D. Sussman
Larry J. Warner
Allan M. Wexler

1968

Number of Donors: 56
Participation: 51.38 %
Total Contributions:
\$18,965.00
Average Gift: \$338.66

Willard P. Amoss
Richard A. Baum
Charles R. Beamon Jr.
Sheldon B. Bearman
Michael W. Benenson
Barry A. Blum

Morton B. Blumberg
Robert Brull
R. S. Buddington
Joseph F. Callaghan Jr.
Elliot S. Cohen
Allen C. Egloff
Gerald B. Feldman
Kenneth E. Fligsten
Frank A. Franklin
John G. Frizzera
Raymond Gamhrill III
Sidney R. Gehlert
John D. Gelin
Ronald S. Glick
William N. Goldstein
Jack R. Groover
Stephen J. Hooper
George F. Hymen
James G. Kane
Kirk A. Keegan Jr.
George M. Knefelcy Jr.
Gordon L. Levin
Abraham A. Litt
Philip Littman
W. B. Long III
Stanford H. Malinow
H. F. Mendelsohn
Anthony L. Merlis
Kathryn A. Mikesell Hornbein
Bruce L. Miller
Bert F. Morton
Carl G. Quillen
Joel Wm. Renbaum
David J. Riley
Rorick T. Rimash
Stephen D. Rosenbaum
Charles S. Samorodin
Barry J. Schlossberg
Howard Semins
Michael J. Shack
Stuart H. Spielman
Wilfred B. Stauffer
Elizabeth A. Turner
Jon M. Valigorsky
P. J. Vergne-Marini
Edward E. Volcjak
Stanley R. Weimer
Eugene Willis Jr.
Stuart Winakur
Edward J. Young

1969

Number of Donors: 56
Participation: 49.12 %
Total Contributions:
\$17,160.00
Average Gift: \$306.43

Mark M. Applefeld
Edward E. Aston IV
J. O. Ballard III
Emile A. Bendit
Barry B. Bercu
Sanders H. Berk
John C. Blasko
Robert M. Braun
Stan Brull
Donald Wm. Bryan
Howard S. Caplan
Edward A. Carter
Paul J. Connors

Leonard D. Cutler
Howard A. Davidov
Anthony F. Faustine
Richard F. Fisher
Graham Gilmer III
Samuel D. Goldberg
Roy R. Goodman
Julietta D. Grosh
Robert A. Helsel
Thomas M. Herskovic
Constance L. Holbrook
Anne S. Jacques
Mark D. Kappelman
Reynold M. Karr
Ronald A. Katz
Felix L. Kaufman
Daniel J. Ladd
Arnold I. Levinson
M. E. Margolis
C. W. McCluggage

David H. Berman
Charles N. Bookoff
Martin Braun
Leo A. Courtney III
Dwight E. Cramer
Joseph H. Cunningham Jr.
Donald D. Douglas
A. Stephen Duhansky
Joseph N. Friend
Julian A. Gordon
Michael A. Grasso
Stephen B. Greenberg
W. D. Hakkarinen
Louis S. Halikman
Lin H. Ho
Kenneth M. Hoffman
Whitney Houghton
Dennis J. Hurvitz
Michael Kilham
Richard J. Kolker

CLASSES WITH THE HIGHEST AVERAGE GIFT

1943M	\$24,735
1937	\$16,406
1957	\$ 4,626
1953	\$ 1,956
1966	\$ 1,399

John R. McCormick
Michael E. McCutcheon
Arthur V. Millholland
Wayne H. Parris
Malcolm D. Paul
Frederick N. Pearson
Robert W. Phillips
Barbara E. Phillips-Seitz
Edward F. Quinn
Harry Rabinovich
David R. Richmond
Allan I. Rubin
Brian S. Saunders
Ronald L. Schneider
W. Winslow Schrank
John W. Shaffer
David M. Shobin
William I. Smulyan
David H. Snyder
William F. Sohr
David A. Solomon
Kristin Stueber
Mark S. Sugar
Kenneth C. Ullman
David A. Wike

1970

Number of Donors: 41
Participation: 36.28 %
Total Contributions:
\$16,796.40
Average Gift: \$409.67

Arthur O. Anderson

Bennett L. Lavenstein
Philip A. Mackowiak
C. B. Marek Jr.
Thomas P. Miles
Lawrence Mills Jr.
James S. Murphy
Leslie P. Plotnick
John H. Poehlman
R. B. Pollard Jr.
Gerald M. Rehert
Walker L. Robinson
Robert F. Sarlin
Carol E. C. Schwarz
Louis A. Shpritz
Gregory T. Sohcak
Ronald J. Stanfield
Stanley S. Tseng
William A. Warren
Charles I. Weiner
Robert I. White

1971

Number of Donors: 31
Participation: 27.19 %
Total Contributions: \$8,550.00
Average Gift: \$275.81

Peter W. Beall
Richard A. Bordow
Ronald Paul Byank
Michael R. Camp
Sachiko T. Cochran
Daniel I. Cohen
Larry I. Corman

198066
198359
196856
196956
197856

Steven A. Feig
Louis G. Gelrud
Burton J. Glass
Robert E. Greenspan
Robert B. Greifinger
Gary A. Grosart
C. F. Hobelmann Jr.
Gwynne L. Horvits
Stanford J. Huber
Jerald Kay
Richard C. Keown
John B. Kramer
William R. Linthicum
Jack S. Lissauer
Michael L. Mattern
R. M. Mentzer
Roy E. Monsour
Robert J. Neborsky
R. Henry Richards
Donald M. Rocklin
Paul T. Rogers
JoAnn C. C. Santos
Robert E. Sharrock
Panayiotis L. Sitaras
C. T. Woolsey Jr.

1972

Number of Donors: 33
Participation: 25.78 %
Total Contributions:
\$16,981.00
Average Gift: \$514.58

Jack J. Applefeld
Robert W. Ashmore
Robert J. Bauer
Elizabeth R. Brown
Howard Caplan
Marc L. Chaiken
Irvin M. Cohen
Theodore H. Cryer
Walter H. Dorman
Darryl J. Garfinkel
Michael E. Golembieski
Sumner I. Goodman
Nelson H. Hendlar
Neil B. Kappelman
Jeffrey J. Kline
Richard B. Kline
Mark J. LeVine
George A. Metzger
John A. Niziol
John M. O'Day
Michael J. Ossi
Charles J. Schkupner
Joseph S. Shapiro

Richard H. Sherman
Gerard V. Smith
H. Hershey Sollod
Thomas J. Toner Jr.
Peter D. Vash
Dean L. Vassar
Jerald P. Waldman
Eliot M. Wallack
Howard J. Weinstein
Brian J. Winter
Celeste L. Woodward

1973

Number of Donors: 47
Participation: 40.17 %
Total Contributions:
\$15,441.00
Average Gift: \$328.53

Jeffrey C. Blum
Thomas Calame
Charles R. Clark
W. Edwin Conner
Edwin A. Deitch
Michael J. Dodd
Steven H. Dolinsky
Edward M. Eisenbrey
Jean M. Eisenbrey
Greg Elliott
John W. Foreman
William R. Gaver
Nelson H. Goldberg
David A. Goldscher
David J. Greifinger
Steven J. Gross
Daniel C. Hardesty
Louis E. Harman III
David E. Herman
David L. Hoover
Mark Jacobs
Michael F. Jaworski
Murray A. Kalish
Erich Kim
James E. Kirby
Walter B. Koppel
Merric D. Landy
Margo Leahy
Stephen K. Lemon
Jeffrey S. Lobel
Samuel V. Mace
Martin Y. Magram
Anthony F. Malone
Christopher S. Michel
Mark P. Miller
Morton C. Orman
Alfred J. Saab

Howard I. Saiontz
Ronald A. Seff
Gregory B. Shankman
Gary M. Shapiro
Ronald F. Sher
Ira M. Stone
Ronald J. Taylor
Charles B. Watson
Alan L. Whitney
Frances Q. Wong

1974

Number of Donors: 46
Participation: 36.22 %
Total Contributions:
\$21,952.00
Average Gift: \$477.22

Charles P. Adamo
Lynn M. Billingsley
Jeffrey P. Block
Richard A. Block
James G. Chaconas
R. P. Christianson
William C. Crawford III
Thomas C. Doerner
Stephen B. Fleishman
Daniel K. Foss
Alan E. Gober
William L. Gonzalez
Edward S. Gratz
Robert M. Guthrie
James F. Hatch
Jay R. Jackson
Charles M. Jaffe
Ronald Kaplan
Laslo E. Kolta
Carole S. Kornreich
Howard G. Lanham
Merrill B. Lewis
Stephen R. Marz
Terrance P. McHugh
James Jay McMillen
Stephen E. Metzner
Joel B. Miller
Sheldon D. Milner
Susan R. Panny
Jeffrey Pargament
Edward L. Perl
Jay A. Phillips
Luis A. Querol
Clayton L. Raab
Sue V. Raver
Bruce L. Regan
June K. Robinson
Ann E. Ruderman
Edward N. Sherman
Harry S. Stevens
Steven A. Vogel
Emerson C. Walden Jr.
William R. Weisburger
Stephen N. Xenakis
Allen C. Zechow
David L. Zisow

1975

Number of Donors: 54
Participation: 42.52 %
Total Contributions:
\$40,235.00
Average Gift: \$745.09

Anonymous
Charles E. Andrews
James L. Atkins
Mark S. Austerlitz
Linda S. Bartram
Robert J. Beach
Bruce E. Beacham
Howard H. Bond
Jonathan D. Book
Timothy J. Byrnes
James Joa Campbell
John H. Carrill
Noel M. Chiantella
Seth B. Cutler
Karl W. Diehn
L. Thomas Divilio
James R. Evans
Louis Fox
Robert B. Garrett
Gary F. Harne
Albin W. Harris
Charles F. Hoesch
Dorothy Shih Yi Hsiao
Kenneth V. Iserson
Thomas F. Krajewski
Mary Lou Kramer
Thom E. Lobe
Frank E. Long
Charles E. Manner
Jeffrey L. Metzner
Edward M. Miller
Thomas L. Moffatt
Parry A. Moore
Edward L. Morris
Frank H. Morris
Nicolette Orlando Morris
Arnold L. Oshinsky
Kathryn A. Peroutka
L. Edward Perraut Jr.
Stephen H. Pollock
Jeffrey L. Quartner
Sandra D. L. Quartner
Gregory B. Richardson
Robert E. Roby
John W. Rose
Andrew B. Rudo
James H. Somerville
Ronald J. Spector
Michael B. Stewart
George A. Taler
Richard L. Taylor
Lloyd M. Van Lunen Jr.
Robert A. Vegors
Gary J. Waxman
Michael E. Weinblatt

1976

Number of Donors: 47
Participation: 31.54 %
Total Contributions: \$14,975
Average Gift: \$318.61

Timothy E. Bainum
Steven M. Berlin
David B. Binder
Damian E. Birchess
John W. Bowie
William G. Brown
David D. Collins
Michael E. Cox
Vincent W. DeLaGarza
Phillip M. Dennis

Suzanne Ray Dixon
Christopher Feifarek
Ellen B. Feifarek
William G. Flowers
D. Stewart Ginsberg
Danae M. Goldberg
Ira E. Hantman
Gary M. Jacobs
Patricia D. Kellogg
Jacqueline Kelly
Harry Clarke Knipp
Barry K. Levin
Geoffrey B. Liss
Miriam Yudkoff Lloyd
Bruce E. Lockman
James E. Mark
Robert D. Mathieson
Eva H. B. McCullars
Arnold B. Merin
James S. Novick
W. Bruce Obenshain
Gary P. Posner
M. H. Rubenstein
William F. Ruppel
Melvin Sharoky
Gary L. Simon
Lee S. Simon
James W. Srouer
William B. Tauber
Joseph R. Tiralla
Deborah F. Weber
Sherry L. Werner
Joan E. Whitehouse Gible
Susan M. Willard
Pamela A. Wilson
Arno L. Zaritsky
Joseph W. Zebley III

1977

Number of Donors: 39
Participation: 25.32 %
Total Contributions:
\$22,200.00
Average Gift: \$569.23

Katherine Ackerman
Stuart B. Bell
Marc S. Bresler
Marie D. Chatham
Dennis J. Chodnicki
Willarda V. Edwards
Rona B. Eisen
Frederic T. Farra
Robert T. Fisher
Donna L. Frankel
Samuel D. Friedel
Linda L. George
Alan S. Gertler
Anne C. Goldberg
Donald J. Gordon
Howard C. Hines
Dahlia R. Hirsch
Christopher F. James
Ronald L. Kahn
Martin Koller
Sheldon H. Lerman
William G. Martin
Paul A. McClelland
Ellis Mez
John P. Miller
Coleman A. Mosley

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Terrence L. Posluszny
Steven H. Resnick
Richard B. Silver
Steven G. Steinberg
Clvde A. Strang
David Strobel
John R. Svrbely
Michelle D. Uhl
Jonathan R. Walburn
Bennett F. Werner
Katherine C. White
Barry A. Wohl
Richard J. Zangara

1998

Number of Donors: 56
Participation: 34.78 %
Total Contributions:
\$64,720.00
Average Gift: \$1,155.71

Philip A. Ades
Robert E. Applebaum
Susanne S. Ashton
Charles Wm. Bennett
Adam Biller
Steven Biller
Edward N. Bodurian
Howard Boltansky
Douglas F. Bowman Jr.
David E. Cohen
Ira J. Kalis Cohen
Louis J. Domenici
Jonathan A. Edlow
John L. Fiore
Gregory H. Fisher
Andrew Paul Fridberg
Marianne N. Fridberg
Laurence B. Givner
Robert L. Gold
Michael D. Gotts
Richard A. Gruen
Richard H. Hallock
David J. Hartig
M. J. Ichniowski
Sandra S. Ishister
David E. Kelley
Elizabeth M. Kingsley
Douglas L. Kozlowski
Alan J. Levin
S. D. Lindenbaum
Mark D. Lisberger
Michael N. Macklin
Gregory D. McCormack
Andrew Richard McCullough
Stephen A. Metz
Jeffrey G. Middleton
Royann C. Mraz
David G. Oelberg
Gary C. Prada
Susan E. Prevas
Jessica J. Radcliffe
James F. Rooney
Ronald J. Ross
Lawrence D. Sandler
Michael H. Sandler
Simon V. Scalia
S. Shawver-Matthews
Robert S. Shayne
Francisco A. Smith
Alex Sokil
Edward Timothy Souweine

Ellen L. Taylor
Stephen A. Valenti
Gregory L. Walker
Neil E. Warren
Donald T. Weglein
Bruce F. Weneck

1979

Number of Donors: 49
Participation: 30.06 %
Total Contributions:
\$14,264.30
Average Gift: \$291.11

William F. Becker
Joanne L. Blum
Karen C. Carroll
James A. Cockey
Kevin M. Cooke
Judith B. Dillman
Burt I. Feldman
Mitchell S. Finkel
Christopher S. Formal
Gary R. Friedman
Scott D. Friedman
Jeffrey D. Gaber
Alan R. Gaby
Leon W. Gible
Peter E. Godfrey
Charles I. Highstein
Jan M. Hoffman
Jeanne Horner
Michael E. Hull
Stephan R. Izzi
Albert L. Jochen
Martin F. Joyce Brady
James W. Karesh
Alan L. Kimmel
Max D. Koenigsberg
Glenn M. Koteen
Bernard F. Kozlovsky
Owen Lee
G. S. Malouf Jr.
Bruce C. Marshall
Bruce R. Marshall
Melissa A. McDiarmid
Mary C. McKay
Kathleen H. Miller
Sunday June Pickens
William O. Richards
Peter E. Rork
Bruce Rosenberg
Anthony M. Scialdone
R. Sierra-Zorita
Michael J. Smith
David B. Tapper
James A. Tegeler
Elizabeth L. Tso
Thomas B. Volatile
Perri Laverson Wittgrove
A. F. Woodward Jr.
Erik B. Young
Kristen A. Zarfos

1980

Number of Donors: 66
Participation: 38.37 %
Total Contributions:
\$18,050.00
Average Gift: \$273.48

Donald E. Brown Jr.
Lawrence A. Brown
Duane M. Bryant
Wayne E. Cascio
Robert P. Cervenka
Jane L. Chen
Joseph P. Crawford
Catherine Crute
Craig A. Dickman
Paul E. Driscoll
Margaret D. Eby
Judith Falloon
Milford Mace Foxwell
Cathy Ann Friedman
Vincent W. Gatto
Grace K. Gellerly
Alan I. Gelman
Marcia P. Goldmark
Peter J. Golueke
Samuel O. Grimm III
Lee J. Helman
Kenneth A. Jurist
Marian F. Kellner
Michael R. Kessler
James C. King Jr.
Kenneth C. Kunze
Susan L. Laessig
Anne D. Lane
Peter T. Lapinsky
Charles E. Lee
Mark D. Leeson
John R. Livengood
Robert Y. Maggin
Teri A. Manolio
Richard A. Marasa
Karen J. Marcus
John N. Margolis
David J. Markowitz
Margaret E. McCahill
Timothy P. McLaughlin
Steven M. Miller
Judah A. Minkove
Thomas P. Moran
William J. Oktavec
Keith D. Osborn
David I. Otto
Craig H. Paul
Russell K. Portenoy
Guy H. Posey
Michael F. Pratt
James P. Richardson
Roger J. Robertson
Timothy J. Rodgers
W. Michael Rogers
R. L. Rudolph II
Alan J. Sacks
Robert L. Schiff
Alvin R. Sills
Kenneth H. C. Silver
Roy T. Smoot Jr.
Victoria W. Smoot
Sally E. Sondergaard
H. H. Startzman III
Phuong D. Trinh
Eric V. Van Buskirk
Paul E. Whitaker

1981

Number of Donors: 39
Participation: 23.35 %
Total Contributions:
\$11,865.98
Average Gift: \$304.26

Peter M. Barker
James M. Carlton
Barbara J. Carroll
Linda L. Chambers
Steve Pi-Hsiung Chow
Alice Magner Condro
Kevin J. Doyle
Daniel P. Ferrick
Michelle Gelkin
Samuel C. Gold
Hope U. Griffin
William S. Gruss
Howard T. Jacobs
Marc A. Jaffe
Karen Kingry
Mark C. Lakshmanan
Andrew M. Malinow
Gordon L. Mandell
Stephan C. B. Mann
Carol S. Marshall
Samuel O. Matz
Scott T. Maurer
David C. Miller
Andrew G. Misulia
Paul E. Mullen II
Kathryn M. Neuman Rudo
Marc Okun
James L. Pertsch
Alan R. Pollack
Deborah R. Pollack
James S. Powell
Donna L. Rinis
Howard N. Robinson
Lauren A. Schnaper
Howard L. Siegel
Samuel Smith
Carl Sperling
Rebecca Tominack
Brian W. Wamsley
Samuel A. Yousem
Laurie T. Zimmerman

1982

Number of Donors: 34
Participation: 19.77 %
Total Contributions:
\$13,780.00
Average Gift: \$405.29

Guillermo W. Arnaud
Wayne L. Barher
Kenneth A. Blank
Paul S. Brockman
Joseph P. Connelly Jr.
Thomas W. Conway
Brian K. Cooley
Cynthia L. Costenbader
John M. DiGrazia
Jonathan S. Elias
Rebecca Elmaleh
Robert J. Fadden
Patrick F. Gartland
Joseph W. Gattuso Jr.
Warren Gibbs
George E. Groleau
C. William I Licks III
Constance J. Johnson
Bruce A. Kaup
Darryl B. Kurland
Carole R. Lerman
Gary M. Levine
Jonathan D. Lowenthal

James W. Miller II
Andrew V. Panagos
Steven H. Parker
Daniel M. Perlman
Robert E. Perry
Ralph T. Salvagno
Jerry B. Schwartz
Marc H. Siegelbaum
Ellen A. Spurrier
Leon Strauss
Jennifer S. Tseng
David L. Waxman

1983

Number of Donors: 59
Participation: \$36.20 %
Total Contributions:
\$16,590.00
Average Gift: \$281.19

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1984

Number of Donors: 44
Participation: 26.99 %
Total Contributions:
\$14,310.00
Average Gift: \$325.23

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1985

Number of Donors: 34
Participation: 20.86 %
Total Contributions:
\$11,971.20
Average Gift: \$352.09

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Ira S. Allen

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Eric C. Sklarew
Laszlo R. Trazkovich
Robert A. VanBesien
H. Von Marensdorff
Paul R. Weiner
Stephen P. Yeagle

1986

Number of Donors: 40
Participation: 25.00 %
Total Contributions:
\$19,750.00
Average Gift: \$493.75

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Marilyn F. Althoff
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Nathan E. Carnell
Eugenio Roberto China
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Nevins W. Todd III
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1987

Number of Donors: 29
Participation: 21.17 %
Total Contributions:
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Average Gift: \$1,001.03

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Participation: 23.70 %
Total Contributions: \$7,320.00
Average Gift: \$228.75

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Kelley Willis Sullivan
Kenneth K. Tam
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1989

Number of Donors: 34
Participation: 26.56 %
Total Contributions:
\$17,750.00
Average Gift: \$522.06

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Darryn M. Band
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Lise K. Satterfield
David S. Scharff
Ronald M. Schwartz
David P. Smack
Kim K. Solberg
Eugene J. Sullivan
Patricia M. Sullivan

Lt Col William E. Venanz
Robin Williams

1990

Number of Donors: 27
Participation: 20.45 %
Total Contributions: \$47,500.00
Average Gift: \$1,759.33

Samuel M. Alaish
Carolyn M. Apple
David H. Balaban
Nicholas M. Cardiges
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Teresa Hoffman Rosen
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Kevin G. Seymour
Paul E. Shuster
Tuanh Tonnu
Dennis J. Van Zant
Michael L. Viens
Marisa J. Werner
Bruce W. Zukerberg

1991

Number of Donors: 30
Participation: 21.90 %
Total Contributions: \$3,965.00
Average Gift: \$132.17

Yared Aklilu
Renato G. Albaran
Michael Lynn Ault
Lisa Marie Beaudet
Karen Elizabeth Brown
Scott M. Browning
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1943D	57.14%
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Chris Van Beneden
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1992

Number of Donors: 31
Participation: 20.95 %
Total Contributions: \$4,840.00
Average Gift: \$156.13

Eligio B. Aguhob Jr.
Vasiliki M. Anvari
Anthony Aram
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Michael Ritondo
Tony L. Robucci
Vivienne Rose
Andrew Rosenstein
Richard Heston Seidel
Joel Turner
Rebecca Heaps Ward
Pamela Wright

1993

Number of Donors: 31
Participation: 22.96 %
Total Contributions: \$4,155.00
Average Gift: \$134.03

Michael Audon
Brian Bloom

Gregory M. Brouse
Susan Brouse
Paulette Browne
Lisa Collazzo
Kathryn M. Connor
Michael Cushner
Valerie Dyke
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Shauna Paylor
David Bryan Sigman
Douglas A. Smith
Adam Solomon
Michael W. Stasko
Christopher Welsh
Lore B. Wootton
Thomas H. Yau
Charles Yim

1994

Number of Donors: 25
Participation: 22.52 %
Total Contributions: \$3,420.00
Average Gift: \$136.80

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Suzanne Carr
Amy S. Church
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Demitrous Frazier
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George A. Porter Jr.
Anthony B. Quinn
Gail Fredericks Russell
Jon Simon
Andrew Lawrence Smock
Doyle Yeager

1995

Number of Donors: 28
Participation: 21.37 %
Total Contributions: \$3,965.00
Average Gift: \$141.61

Melinda Battaile
James Boler
Michael C. Bond
Susan Boyd
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Suman Mishra
John P. Moriarty
Duke Pao
Lisa Smith
Theodore S. Takata
David Vroman
Scott Winiecki
Joyce Wong
Samuel Yoon

1996

Number of Donors: 36
Participation: 24.16 %
Total Contributions: \$7,540.00
Average Gift: \$209.44

Christian Bounds
Paula Boyle
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Rachel Burdick-Fissell
Brian Cantor
Joy Collins
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Stephanie D. Silverman
Huyanh Ton
Walter Wojcik

1997

Number of Donors: 34
Participation: 22.67 %
Total Contributions: \$6,925.00
Average Gift: \$203.68

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Heidi Ginter Shah
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Jane Wang
Jay Weiner
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1998

Number of Donors: 23
Participation: 17.16 %
Total Contributions: \$2,730.00
Average Gift: \$118.70

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Shannon J. Winakur

1999

Number of Donors: 25
Participation: 19.53 %
Total Contributions: \$3,090.00
Average Gift: \$123.60

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2000

Number of Donors: 18
Participation: 13.53 %
Total Contributions: \$1,635.00
Average Gift: \$90.83

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2001

Number of Donors: 22
Participation: 18.64 %
Total Contributions: \$1,845.00
Average Gift: \$83.86

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2003

Number of Donors: 20
Participation: 16.81 %
Total Contributions: \$1,470.00
Average Gift: \$73.50

2002

Number of Donors: 22
Participation: 17.32 %
Total Contributions: \$1,550.00
Average Gift: \$70.45

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Eve Fields
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Jill Rathyn
Susan Brown Schoenfeld
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Judy Wang
Mark H. Wernick

2004

Number of Donors: 12
Participation: 9.45 %
Total Contributions: \$365.00
Average Gift: \$30.42

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Christopher Hydorn
Corinne Sokolik Jackson
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Michael Pertraut
Jonathan Rogers
Amy S. Rogstad
Ryan Shugarman
Kristina Susan
Gerti Tashko
Robin Veidt

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Number of Donors: 16
Participation: 12.03 %
Total Contributions: \$600.00
Average Gift: \$37.50

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Number of Donors: 17
Participation: 12.23 %
Total Contributions: \$1,088.00
Average Gift: \$64.00

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Jeremy Bock
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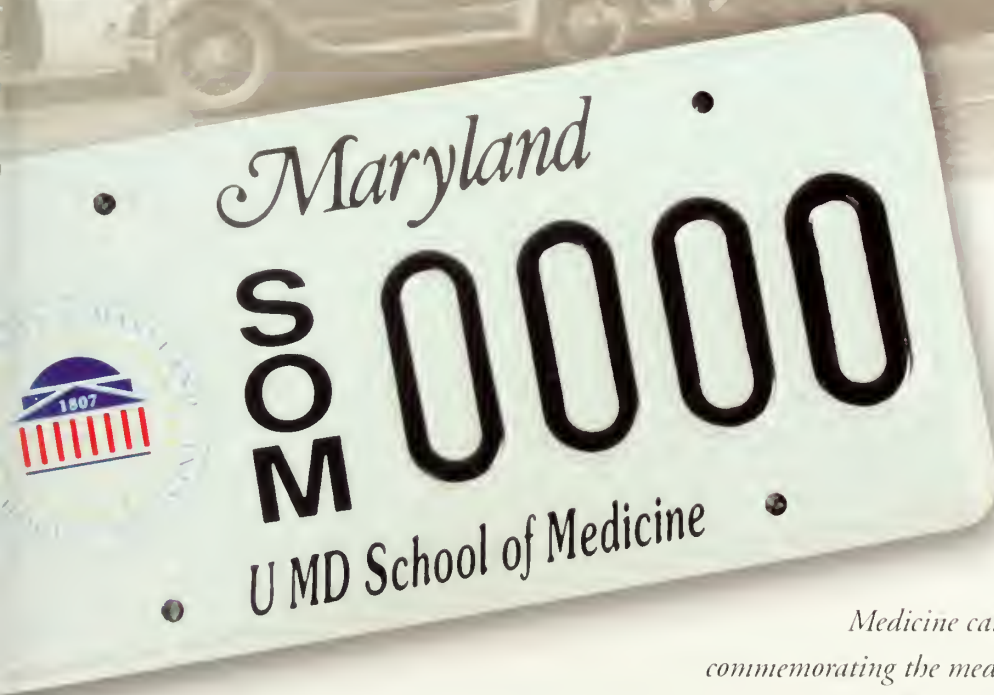
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Changing Beats

BY BILL ATKINSON



Stephen A. Valenti, '78, is a master at the art of transformation.

One minute he is neatly dressed in slacks, shirt, tie and white medical jacket talking in a quiet but reassuring voice to a patient. The next, he is on stage before scores of people, dressed in blue medical scrubs, a red punk rock wig, while snapping karate kicks and playing a Rolling Stones hit *Start Me Up* on a bright red guitar.

By day, Valenti is a clinical cardiologist, serious about his work. By night, generally once a year, he transforms himself into the lead guitarist of Stevie V. and The Heart Attackers, a 13 member band made up mostly of physicians and medical professionals. The Heart Attackers play everything from Robert Palmer to Patsy Kline to Gershwin. "It is like living another life," says Valenti, 55. "It is a transformation, but it is a natural part of my personality."

For Valenti, music and medicine are an integral part of his personality. Both allow him to give back to society. Music, he says, helps him connect with people and the outside world. "I love seeing people enjoy themselves," Valenti says. "I love to smile at

the audience and see people having a great time. Music has been a way to bring people together."

But his true passion is caring for people who have problems with their heart. "To me, the practice of medicine is a very serious commitment and lifestyle," says Valenti, who is a member of HPV Heart P.A., a bustling private clinical cardiology practice in Columbia, Md. "I try to make sure that nothing interferes with my patient focus. I am very careful not to have too many extra curriculars to make sure patients get the care they need." His commitment to patients landed him on the cover of *Baltimore Magazine* in 1999, as one of Baltimore's top 15 cardiologists, an honor that he says was a surprise.

Valenti spends his days on hospital rounds, conducting stress tests, cardiovascular screenings, cardiac catheterizations, angioplasties in addition to patient follow ups and paperwork. At times he puts in up to 100 hours in a week. "There is no time for lunch," he says.

He often starts work between 5:00-6:00 a.m., and doesn't arrive home until late in the evening. When he is on call over a weekend he sleeps on the couch in his office because the 40 minute drive from his home in Annapolis to Columbia would take too long to handle emergencies. The weekend shift can be grueling. "I might be there for 60 hours straight," Valenti says. "If you are committed to this work you just have to do it right."



Valenti performing for his medical class at graduation. Sitting at the keyboards is classmate Paul A. Gertler.

His wife, Elizabeth Kingsley, '78, understands the long hours because she is a cardiologist, too. The couple, who have two grown daughters, both work late, but when they are free, generally in the evening, they unwind and practice ballroom dancing. The two have won top couple awards in ballroom dancing competitions in Las Vegas, Costa Mesa, Calif., and Atlantic City.

There is no doubt that Valenti is a talented musician. He opened for Three Dog Night, Buddy Rich, the Drifters and other big names while playing with a band in college. He even jammed with Jimmy Buffett in front of thousands at the Merriweather Post Pavilion after beating out other guitarists in a contest sponsored by a local radio station.

Music was a part of Valenti's life since he was a young boy. His father, who played the saxophone, took his 10 year-old son to a music store and put a violin in his hand. "I could only get a screech out of it," Valenti recalls. Then his father handed him an acoustic guitar, and the youngster began picking a Johnny Cash tune. "I thought, 'I can do this.' So, at that point I started playing."

Around the same time, Valenti developed an interest in medicine. His parents were not well-to-do, but they were always helping neighbors in need. "I grew up in a family where my parents were so kind," says Valenti, who lived in an apartment in Hyattsville, Md., and shared a room with his two brothers. "I always grew up with the feeling of wanting to give back."

Valenti graduated valedictorian of his high school class and wore a "regular boys' haircut." By the time he was in college at the University of Maryland he had grown his hair below the neck and, with his younger brother, played in a band named the No Where Men and another called Liberation. His mother worried that her sons might get into trouble.

I said, "Mom, don't worry. I am not into drugs. We are straight," he recalls. He was so straight that when the band took a road trip to Detroit, Valenti brought his books. Despite playing six nights a week, Valenti managed a 4.0 grade point average, graduated from college in three years and earned a scholarship to the school of medicine.

He studied hard in medical school, but managed to have fun, too. The summer after his freshman year, he and Paul Gertler, '78 dissected cadavers to prepare them for the anatomy class for medical students, and hatched a plan to form a band called



Ballroom dancing with wife Elizabeth


Whisper, which played country clubs, weddings, and bar mitzvahs on weekends. "It was good money if you were trying to pay your way through medical school," recalls Valenti, who celebrates a 30th reunion next spring.

Graduating from medical school in 1978, Valenti served his internship and residency in internal medicine at Maryland. After a fellowship in cardiology at Maryland and the Baltimore VA Hospitals, he went into private practice.

"Coming from a musical background I became interested in cardiac rhythms and heart sounds," Valenti says. "Such an amazing variety of rhythms and tones. I always wanted to achieve a very high level of confidence with treating cardiac emergencies and performing invasive vascular procedures, things that initially as a medical student made me a little nervous."

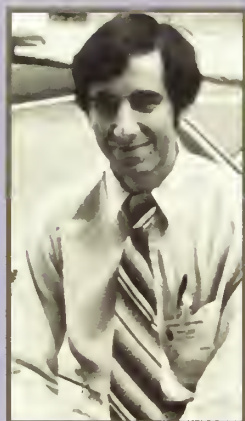
Valenti and the Heart Attackers play just once a year at Heartfest, which raises research dollars to support the Johns Hopkins Ciccarone Center for the Prevention of Heart Disease. But this past summer, the Heart Attackers played a second concert, the black tie gala celebrating Maryland's 200th medical school anniversary.

That evening, Valenti transformed himself. He traded in his white medical jacket for a pair of scrubs and his trademark red punk rock wig. He jumped and kicked and played his guitar behind his neck while on his knees. As he looked out onto the dance floor, he could see the smiles on peoples' faces. He smiled, too.

"It was an honor," Valenti says. "It was one of the most meaningful things I have ever done in my musical and medical careers. It connected me more than ever to the history of the medical school and to Baltimore." 

No Appetite to Tag

By BILL ATKINSON



Cutchis in the 1983 Terra
Manae Medicus

He holds five patents and has four degrees, including an MD and a master's degree in electrical engineering.

Since he was a boy, Protagoras N. Cutchis has had an unquenchable curiosity about electricity; more specifically, electrical gadgets and how and why they work. In the basement of his home he keeps the relics of his youth, the gadgets he built from scratch. There is a color organ in a black, trim case that flashes to the beat of music, a stereo power amplifier called the Cutchis P 480, and two monster stereo speakers each with two 12-inch woofers that hammer out a Carlos Santana rock tune almost loud enough to make the ceiling tiles in his basement dance. "You can turn it up as loud as you want," says Cutchis, '83, over the din.

Cutchis, better known as "Tag," knew from around 12 years old that he wanted to be an electrical engineer. "I just like designing things and seeing them work," he says. "I still like building stuff and trying it out."

The passion carries through to this day. Cutchis is senior engineer in the National Security Technology Department of The Johns Hopkins University Applied Physics Laboratory (APL). He holds five patents and has four degrees, including an MD and a master's degree in electrical engineering. He has helped design portable ventilators that can be used on the battlefield, a pill used to monitor internal temperatures of athletes, astronauts and hospital patients, and most recently, conceived of a device that may one day help amputees move artificial limbs simply by thinking about the movement they want to make.

This idea made a splash. For his efforts, Cutchis received The Johns Hopkins Applied Physics Laboratory Inventor of the Year award in 2005 in the physical sciences category. He was named to the 2006 *Scientific American 50*, a prestigious list in the magazine that comes out annually and is made up of technical innovators. "I had no idea I was being considered," says Cutchis, 49, about the

award, which he displays on his desk at home in Highland, Md. "If anything, it validates my creativity."

As a senior engineer at APL, Cutchis works closely with the Department of Defense, Homeland Security and the Transportation Security Administration.

For a biosurveillance-related project, Cutchis' team designed software that enables hospitals and physicians to monitor patients' complaints in emergency rooms and physicians' offices throughout the country. Once the data is entered into the computer, public health officials in counties and states can examine the data and look for patterns or unusual developments. Is there an outbreak of food poisoning in a certain county or city? A spike in seizures? Tuberculosis? Small pox? The mission is to find patterns that could signal a potential terrorist attack. "A system like this is designed to help

He was named to the 2006 *Scientific American 50*, a prestigious list in the magazine that comes out annually and is made up of technical innovators.

you detect a disease outbreak or a possible bioterrorism attack sooner, enabling you to treat a lot more people and save more lives," Cutchis says. So far, the health officials haven't detected evidence of terrorism, but they have seen ramp ups in food-borne illnesses and the flu.

Cutchis grew up in Silver Spring, the older of two children. His father was a physicist and contractor for the Department of Defense, and his mother was a mathematician also at the defense department. As a youngster, Cutchis admittedly wasn't a standout as a student, but he showed an

Along

Cutchis quickly concluded that he was more interested in helping hospitals, patients, and doctors through engineering than by administering directly to patients.

aptitude in electrical gadgetry and spent hours in his dad's workshop. In grade school, he designed and built a pink noise generator to blot out background noise. It was hardly a brilliant piece of work, but it set a tone for bigger and better things to come: the color organ, the stereo power amplifier, speakers, a police radar jammer—a project he never completed—and a digital bow and arrow range gauge that lets the archer know how high to point the bow to reach a desired distance. "Ideas would just come to me," Cutchis says. "They just pop into my head."

By the time he entered college, Cutchis had become a more serious student double majoring in physics and engineering and graduating with honors. After college, he enrolled in medical school, and after graduating in 1983, he was admitted to the school's neurosurgery program. Cutchis quickly concluded that he was more interested in helping hospitals, patients and doctors through engineering than by administering directly to patients. He joined APL and by 1986 was managing the electronic work on implantable medical devices, including an implantable urinary sphincter for people who could not control urination. By 1990, Cutchis received a master's degree in electrical engineering. "I was always interested in applying engineering to medicine," he says.

At APL, Cutchis designed fiber optic sensors and circuitry to detect intestinal bleeding. He con-

ducted research on new pulse train patterns for spinal cord electrical stimulation to relieve chronic pain, and was the lead design engineer for a portable ventilator for the U.S. Army.

Even at home Cutchis, who is married and has two daughters, is absorbed by projects that stretch his mind and imagination. He spent nine months building an elaborate wine rack for his collection. One of his daughters wondered if the family would ever see him again because he was buried so deeply in the project. Years ago, he designed his home and redrafted the plans five times until his wife told him enough was enough. He even strung 5,000 feet of electrical cable throughout the house to control the cable television, audio system and secu-

rity cameras that allow him to see visitors as they pull into his driveway.

Lately, he has been noodling with the color organ because one of the four channels doesn't work. But Cutchis is confident that he will solve



the problem when he has time to focus. "Designing and building can be pretty frustrating because it doesn't always work," he says. "But if you are not failing every once in awhile, you are probably not trying very hard." ■

Bulletin Recollections

1932 A listing of a two-year pre-medical college course.

SCHEDULE OF SUBJECTS OF THE TWO-YEAR PREMEDICAL COLLEGE COURSE Sixty Semester Hours Required

REQUIRED COURSES:	Semester Hours
Chemistry (a)	12
Physics (b)	8
Biology (c)	8
English Composition and Literature (d)	6
Modern Foreign Language (e)	6
Other Non-Science Subjects	6

COURSES STRONGLY URGED:

Additional English.
Additional Foreign Language.
Comparative Vertebrate Anatomy.
Quantitative Analysis or other Advanced Chemistry.
Advanced Mathematics, including Algebra and Trigonometry.
Psychology, Logic, Social Science, Economics, History, Political Science.

A semester hour is the credit value of sixteen weeks' work consisting of one lecture or recitation period per week, each period to be of not less than fifty minutes' duration net, at least two hours of laboratory work to be considered as the equivalent of one lecture or recitation period.

1957 A rendering of the new health sciences library, built on the site of the original "Davidge Hall" library. Note to reader: This library existed for nearly 50 years but was demolished in 2007 to make way for an ambulatory center.



SOON TO RISE

Architect's drawing of new Library Building which will shortly be constructed on the site of Davidge Hall

The editorial board is proud to present Volume 92, Number 2 of the **Bulletin** magazine, the **oldest medical alumni association publication** in the United States.

In addition to serving as the medical school's primary communications link with alumni since 1916, it serves as a bridge connecting us to our past.

This section of the magazine features snippets of past issues, offering a look at our medical school 25, 50 & 75 years ago.

1982 The honor roll of donors included details of special gifts made to the medical school.

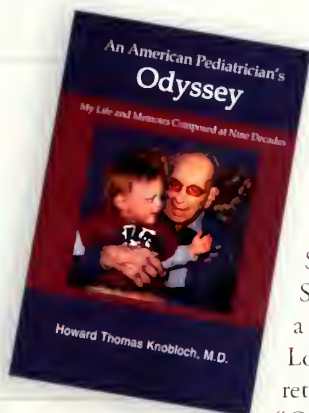
Special Gifts To School Of Medicine In 1981-82

	Donor
Dr. Aaron I. Grollman Postdoctoral Fellowship in Surgery	Mrs. Maurice Grollman Glick
Dr. Aaron I. Grollman Visiting Professorship in Basic Medical Sciences	Ellis Grollman, Pharmacy '26
Sandra Minna Hoffman Memorial Student Loan Fund	Kenneth M. Hoffman '70
Dr. Harry C. Hull Lectureship in Surgery	Joseph B. Ganey '45
Elizabeth G. Macaulay Memorial Award for Outstanding Clinical Proficiency in the Department of Physical Therapy	William E. and June B. Rhoads
Drs. Kathleen R. and Charles W. McGrady Student Loan Fund	The Drs. McGrady '51
Dr. I. Earl Pass Award for Exceptional Proficiency in Internal Medicine	The estate of I. Earl Pass '37
Dr. Bernard J. Sabatino Memorial Student Loan Fund	LOUIS T. Sabatino, Pharmacy '39
Edward Sigman Memorial Fund	Bernice Sigman '60
Dr. George H. Yeager Lectureship in Surgery	Joseph B. Ganey '45

classnotes

30s

1936: Harold T. Knobloch of Essexville, Mich., published *An American Pediatrician's Odyssey* in the spring.



has volunteered for the past fourteen years. Daughter Martha is an anaesthesiologist at the Kaiser Permanente Hospital in Santa Clara, Calif.

1951: Solomon Cohen of Sebastopol, Calif., grows Sauvignon Blanc grapes that make a fine wine. **Dorris M. Harris** of Los Angeles is well and enjoying retirement. She recalls receiving the "Golden Handshake" from L.A.

County in 1993. **Eugene B. Rex** is adapting to Florida life in Winter Park. He would like to hear from any nearby alumni.

1952: Timothy D. Baker of Cockeysville, Md., served as guest editor for a special issue of *Maryland Medicine* on global health. **Richard A. Sindler** of Towson, Md., operates an antique shop while working part time doing whole body CT scanning in Rockville. Wife Vicki is a realtor with Long & Foster.

1953: W. Meredith Smith of Baltimore sadly reports that wife Corinne passed away on May 14.

1956: Charles Sanislow of Midland, Mich., enjoys tree farming, grandchildren, family, and friends. He continues to volunteer a few hours each week in the cancer center and vascular lab at Midland Michigan Medical Center.

1957: Walter M. Shaw of Bonita, Calif., thought the 50th class reunion and the 200th medical school anniversary celebrations were superb, and he will cherish the memories. He plans to return for many more reunions in the coming years.

1958: Bruce N. Curtis of Thatcher, Ariz., reports that he is busy being a father and grandfather. In his family are a radiologist, hospital consultant, veterinarian, housewife and running instructor, as well as airline pilot.

60s

1960: Morton E. Smith of St. Louis was the honorary Grand Marshal at the 2007 Washington University commencement.

1961: John N. Browell of Marshfield, Wis., sadly reports that wife Ann passed away on May 4. Ten months earlier they had celebrated their 50th wedding anniversary.

1963: Michael G. Hayes of Baltimore is still working! **D. Robert Hess Jr.**, of Chambersburg, Pa., has cut back to 2½ days of work each week to spend more time with family, church activities, and travel. **Arnold J. Jules** and wife Lynn of Gwynedd Valley, Pa., enjoy spending time with their two sons and four grandchildren since Arnold's retirement in February as the president and CEO of the North Pennsylvania Orthopaedic Association.

1964: Gustavo A. Colon of Metairie, La., works three days a week doing aesthetic surgery and is clinical professor of plastic surgery at Tulane University. **Mark E. Krugman** of Newport Beach, Calif., and classmate Gustavo Colon, both plastic surgeons, attended



Mark E. Krugman and Gustavo Colon

"Aesthetic Surgery on the Baltic." **Eric D. Schmitter** of Santa Monica, Calif., continues working part time at the West Los Angeles Wadsworth VA after retiring from UCLA and private practice.

40s

1943M: Ralph K. Brooks of Annapolis, Md., continues to cruise and race in the Chesapeake. He is a long-time member of the Naval Academy Sailing Squadron. **Irving L. Samuels** of Delray Beach, Fla., reports that a fourth Samuels family member graduated from the medical school in May when grandson Aaron crossed the stage.

1945: Robert F. Byrne of Wichita, Kans., swims and walks at the YMCA, and attends medical symposia.

1948: Benjamin K. Silverman of Seal Beach, Calif., received a distinguished service career award from the pediatric emergency section of the American Academy of Pediatrics during its annual October meeting in San Francisco.

1949: Edward W. Stevenson of Birmingham, Ala., has owned nine airplanes over the years, and he still has one that he flies frequently. He is a member of United Flying Octogenarians (UFO). Stevenson also sits on the board of the Alabama Aviation Hall of Fame, the Southern Museum of Flight, and the Birmingham Aero Club.

50s

1950: Miriam S. Daly of Albion, Mich., continues coordinating the blood drive for the American Red Cross where she

classnotes

1965: Frederick S. Herald of Hollywood, Fla., is medical director for chemical informatics at Memorial Healthcare System following retirement from private practice a few years ago.

1967: Henry Feuer of Indianapolis is the proud owner of a Super Bowl ring, for his role as neurosurgery consultant to the Indianapolis Colts. **John Wm. Gareis** of Lancaster, Pa., proudly reports that daughter Rebecca is part owner of the Crab Place in Crisfield, Md., specializing in on-line orders for crab cakes. **Stuart H. Lessans** of Rockville, Md., had a wonderful summer. He and wife Ellen report that twins Matthew and Faye have entered first grade. **Allan S. Pristoop** of Owings Mills, Md., reports that son Eli is working for the Bill & Melinda Gates Foundation, and daughter Rebecca works at the Museum of Modern Art. **John R. Stephens** of Newport News, Va., reports that son John has sold a TV pilot to NBC. Daughter Clare is expecting twins, and daughter Kate graduated from Clemson last spring.

1968: Kirk A. Keegan and wife Deborah have moved to Arden, N.C., following Keegan's retirement from the University of California Irvine where he served as associate dean and professor of OB/GYN. **Abraham "Abi" Litt** and wife Ellen of Newton Center, Mass., are enjoying retirement. Daughter Caryn recently graduated Magna Cum Laude from Fordham Law School. Older daughter Marleen has a graduate degree in social work; both live in Manhattan. **Barry J. Schlossberg** of Pikesville, Md., reports that son Michael and daughter-in-law Shenna gave birth to Noah Riley on July 4—Schlossberg's first grandchild. Michael served as chief resident in medicine at Maryland in 2004.

1969: Constance L. Holbrook reports that living in Sun City at Hilton Head, S.C., is a great experience. Choral

singing, golfing, and acting were activities she never had a chance to pursue during her medical career, that is until now.

70s

1971: JoAnn C. C. Santos and spouse Arturo of Reisterstown, Md., report the birth of their first granddaughter, Charlotte Ann, on November 17, 2006—the same birthday as Santos!

1972: Sharon L. Landman of Woburn, Mass., has spent time working in Nairobi, Kenya, and in Uganda after retiring from her practice of neurosurgery. She retired after growing tired of the plaintiff's bar. **Howard J. Weinstein** of Newton Center, Mass., completed 17 consecutive Boston Marathons last spring to raise money for cancer research. He edited a book on pediatric lymphomas and was honored with a named chair—the R. Alan Ezekowitz Professor of Pediatrics at Harvard Medical School. Weinstein and wife Ann are busy planning for the Bar and Bat Mitzvah of twins Becca and Aaron.

1973: Edward M. Eisenbrey of Fort Washington, Md., has survived multiple myeloma for eight years. For now he is practicing part-time and limiting it to office GYN.

1974: William L. Gonzalez of Annapolis, Md., reports that son Mark graduated from medical school at Georgetown University. After residency training the two plan to practice ophthalmology together. **Luis A. Queral** of Lutherville, Md., is founder and director of the Vascular Center at Mercy, the state's busiest program in vascular surgery.

1975: Thom E. Lobe of Memphis, Tenn., recently completed a physician executive MBA program at the Univer-

sity of Tennessee Graduate School of Business. **John Young** of Potomac, Md., is a member of the Maryland Community Health Resources Commission, appointed by Governor Martin O'Malley.

1976: Susan M. Willard of Kingsville, Md., reports that her daughter is training in internal medicine at University Hospitals/VA in Cleveland after graduating from Case Western Reserve in May.

1977: Anne C. Goldberg of St. Louis is president of the National Lipid Association, a 2,000-member organization devoted to enhancing the treatment of hypercholesterolemia and other cardiovascular risk factors. **Terrence L. Posluszny** and wife Sharon of McAllen, Tex., have three granddaughters. Their oldest daughter Lauren will soon be training in oral surgery; youngest daughter Susan is an aspiring actress in New York City after graduating from Yale.

1978: Stephen A. Valenti and **Elizabeth Kingsley** of Annapolis, Md., have volunteered to organize the 30th reunion in spring and are hoping to entice as many colleagues as possible to attend the class party on Saturday, May 3. They are in year 24 of cardiology careers. Daughter **Elizabeth Lechner** is a fourth year medical student at Maryland.

1979: Burt I. Feldman of Rockville, Md., is a certified medical director and serves in this capacity at a skilled nursing facility in Silver Spring in addition to outpatient geriatric practice. He is president of the D.C. Chapter of the American Geriatric Society. **Bruce D. Koehler** of Temple, Tex., reports that son Michael is a third-year medical student at the University of Texas Health Science Center at San Antonio. **Max D. Koenigsberg** of Chicago has triplet 12-year-olds. He is senior EMS medical

classnotes

director. **Mary C. McKay** of Huntsville, Tex., is a semi-retired pediatrician now working as a Locums. **William O. Richards** of Nashville, Tenn., is president of the Tennessee chapter of the American College of Surgeons.

80s

1980: James P. Richardson of Ellicott City, Md., passed the hospice and palliative medicine board exam this year. He teaches and practices geriatric medicine at Union Memorial Hospital. **Roy T. Smoot Jr.**, of St. Michaels, Md., is chief medical officer at Maryland General Hospital.

1982: Christopher M. Aland of Newtown, Pa., is an honorary member of the Pennsylvania State Athletic Trainer Society, recognized for his work in sports medicine over the past 15 years. He and wife Maryellen are official empty nesters since their youngest is off to college. **Wayne L. Barber** of Owings Mills, Md., reports that his ophthalmology practice with **Robert F. Friedman, '91**, opened a new office facility to better meet the needs of their community. **Constance J. Johnson** of Clarksville, Tenn., is a member of one of the first group practices to be certified in headache medicine by the United Council of Neurologic Specialties. In addition to seeing patients, Johnson is doing clinical research. In her free time, she rides horses and is now competing in dressage. **Charles T. Lucey II** of Rockville, Md., is in his fifth year at the FDA working on preventing transfusion-transmitted diseases, and he also is on the staff of the National Navy Medical Center.

1983: Neil B. Friedman of Owings Mills, Md., is director of the breast center and a surgical oncologist at Mercy Medical Center. His daughter was

recently admitted to veterinary school. **Garry Mueller** of Lancaster, Pa., is celebrating 21 years of his family (private) practice and is now experiencing "empty nest syndrome" as his youngest child completes freshman year at the University of Pittsburgh. His oldest works for Americorps in Philadelphia while his middle child is a senior at Temple University.

1984: Katherine D. Tobin of Honolulu enjoys her work with Virtual Radiologic Corp. She, husband Rich, and daughters Kaitrin and Bridget have visited Alaska and Australia this year, and they are looking forward to visiting Baltimore over the winter break.

1986: Gerard Anthony Burns of Jersey City, N.J., is chief medical information officer at Hackensack University Medical Center. **Patrick A. Flynn** of New

York City is director of the pediatric echocardiography service at New York Presbyterian Hospital/Weill Cornell Medical College and is a member of the Cornell chapter of Alpha Omega Alpha Medical Honor Society.

1987: Ralph Gregg and wife Ana of Fort Myers, Fla., report that son Michael is an environmental major at the University of Florida after graduating Summa Cum Laude from high school. He hopes to one day attend medical school. **Elizabeth Robert Hatcher** of Topeka, Kans., was sorry to miss the Reunion and bicentennial celebration in spring. She continues to enjoy a private psychiatry and psychoanalysis practice. **Donald V. Woytowicz** of Port Charlotte, Fla., is on sabbatical and is traveling the world with his family during the next year. During their voyage he and wife Karen are home schooling their three children. Woytowicz has



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submitted two articles to the *Journal of Clinical Oncology* and has three recent abstracts which he hopes will be published soon.

1988: Mark H. Fraiman of Lutherville, Md., is chief of surgery at St. Joseph Medical Center.

1989: Louis I. Bezold III has relocated to Lexington, Kentucky, and is the division chief of pediatric cardiology at Kentucky Children's Hospital/University of Kentucky College of Medicine. **Brian Eastridge** of San Antonio, Tex., a military colonel, has been deployed to Iraq as the system director for the CENTCOM Joint Theater Trauma System.

90s

1990: Paul E. Shuster and wife Arleen of Hagerstown, Md., recently celebrated 20 years of marriage.

1991: Dana Lise Silver and husband **Michael Schweitzer** live in Towson, Md., with their two sons, ages nine and 12. Dana is practicing pediatrics at Sinai Hospital, and Mike practices surgery at Johns Hopkins. They are wondering where everyone was last year during reunion.

1992: Theresa Peet of Baltimore sadly reports that husband Gregory was killed in a motor vehicle accident on May 2. She has a seven-year-old daughter.

Caroline D. Sherbourne and husband Charles Bouch of Lafayette, Calif., have one son and are expecting twins.

1993: Patricia Jett and husband David of Ellicott City, Md., have been married 15 years and report that their sons are growing up fast. **Nicola London** of Forest Hill, Md., specializes in OB/GYN in a private group practice with offices in Dundalk and Bel Air. She has two boys, ages 13 and eight.

1994: Amy S. Church and husband Robert of Stockton, N.J., proudly welcomed Ryan Joseph on April 20. He joined sister Erin, age one.

1995: Michael Bond of Pasadena, Md., is assistant professor at Maryland. He and wife Ginger are expecting their second child. **Suman Mishra** of Pittsburgh and husband Dinarir are happy to announce that all are well after the birth of Milan Golla, their second, on May 1. **Olayemi O. Osiyemi** of West Palm Beach, Fla., is director of the division of medicine and section chief of infectious disease at St. Mary's Medical Center, in addition to serving as president/CEO for Triple O Medical Services and the Triple O Research Institute.

1996: Joy Collins of Philadelphia has joined the pediatric general and thoracic surgery faculty at the Children's Hospital of Philadelphia after completing fellowship training. **Monica Sarang** of Los Angeles reports that life is good in California with her two boys Myles and Luke.

1997: Daniel Farber of Mount Airy, Md., specializes in disorders of the foot and ankle as a member of Maryland's faculty in the department of orthopaedics. **Margaret Kelly** of Raleigh, N.C., is a member of the faculty at UNC Chapel Hill after completing residency training and fulfilling her Navy obligation. On a sadder note, her brother John and his girlfriend were killed in a boating hit and run on July 8. **Jennifer Moffett** and husband Michael Smith of Northridge, Calif., celebrated the arrival of Alaina Rose, their third, in April. Moffett enjoys working part-time in private practice. **G. Anthony Reina Jr.**, and wife Bryn are proud to announce the birth of Peter August on December 4, 2006. He joins brother Zachary, age two. **Heidi Ginter Shah** and husband Nilesh of Shrewsbury, Mass., proudly

announce the birth of Lily, their second daughter, on February 26.

1998: Elizabeth D. Feldman of Washington, D.C., is a breast surgery fellow at Anne Arundel Medical Center in Annapolis after completing residency training at Georgetown University Medical Center. **Jennifer C. Logan** of Mount Airy, N.C., reports that son Warren is a freshman in college after graduating from high school in May. **Camil N. Sader** and wife Tatiana Lee-Chee, D.O., an ophthalmologist, of Pompano Beach, Fla., report that son Julien recently turned two. **Emily Cootauco White** and husband **Drew** of Reisterstown, Md., announce the birth of son Cabot, their third, on June 10.

1999: Eric K. Johnson and wife Amy of Evans, Ga., report the birth of Molly Michele in December 2006, their third daughter. Johnson recently returned from a deployment to Afghanistan. **Ursina R. Teitelbaum** of Ardmore, Pa., is a member of the hematology/oncology faculty at the University of Pennsylvania. She and husband Benjamin are expecting their third child in December. Daughter Lillie is three years old and son Sam is one. **Mallory Williams** of Canton, Mass., is a Commonwealth Fund Harvard University Fellow in Minority Health Policy. This follows completion of his surgical critical care fellowship at Brigham and Women's Hospital.

00s

2000: Eliahu S. Feen of University City, Mo., is a member of the faculty at St. Louis University School of Medicine. **Joanne D. Saxour** of Daytona Beach, Fla., is a member of the clinical faculty at Florida State University in addition to maintaining a solo family medicine practice. **Lisa B. Yanoff** of Silver Spring, Md., is a third-

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classnotes

year endocrine fellow at NIH. She married a commercial pilot from Israel in April 2005.

2001: Joseph G. Hobelmann and wife Betsy of Luther-ville, Md., are expecting again, and this one is a boy. They have two daughters, ages five and two. He practices pain medicine in Towson while she is playing the role of stay-at-home mom. **Sandra Stevens** of Norway, Maine, is expecting her second in January.

2002: Walid Gellad of Brookline, Mass., is chief resident in medicine at Brigham and Women's Hospital.

2003: Sharla Hart of Polson, Mont., practices family medicine including obstetrics and emergency medicine at a rural 25-bed hospital. **Rachel Hartman** of Dallas is a hospitalist. She and husband Isamu celebrated the birth of a baby girl in April. **Nathaniel Holzman** and wife Joanna of Brighton, Mass., announce the birth of Bella Caryl, their first, on July 5. **Sachin Kalyani** of Baltimore is doing a fellowship in cornea and refractive surgery at the Wilmer Eye Institute at Johns Hopkins after completing his ophthalmology residency. **Karen Kinkel** of Newark, Del., is a staff physician in primary care at the VA Medical Center in Wilmington. **Sarah A. Kremen** of Los Angeles is undertaking fellowship training at UCLA in the department of behavioral neurology. **Mohammed Manasawala** of Glen Mills, Pa., is heading to Boston next summer for a neuro-radiology fellowship at Brigham and Women's Hospital.

2004: Katherine Gamble married Ira Marvin in May. She is doing a one-year obstetrics fellowship in Seattle this year and enjoys exploring the Pacific Northwest with dog Misty. **Jonathan Rogers** and wife Joanna of Pikesville, Md., welcomed son Zachary Asher, on March 16. **Robin Veidt** is doing an oncology fellowship at Memorial Sloan Kettering Cancer Center. She is engaged to be married on May 17, 2008.

2005: Todd M. Kolb and wife Gina of Baltimore welcomed daughter Sofia on March 24.

2006: Andrea Ceccarelli of Canton, Md., is in year two of a family medicine residency at Franklin Square Hospital. **Tara Cook** is enjoying Midwest hospitality during her neurology residency in Iowa City. **Rachel E. Garvin** of Loveland, Ohio, is flying on AirCare during her second year of an emergency medicine residency. She reports that daughter Zoe is now four years old.

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In Memoriam

Meyer G. Miller, '33

Lady Lake, Fla.

August 5, 2007

Malcolm Dudley Phillips, '45

Darlington, Md.

September 13, 2007

Dr. Phillips financed his medical education by working nights at Bethlehem Steel. He interned at Maryland General Hospital before residency training at Harford Memorial Hospital. Upon completion of training, he opened a family practice in Darlington where he practiced for five decades and delivered more than 2,000 babies before retiring in 2000. Phillips served on numerous boards including the Harford County Tuberculosis Medical Advisory Board and was a founding member of the Darlington Volunteer Fire Department. He was named Darlington's VIP during its 1992 apple festival. He enjoyed his dogs, reading mysteries, and listening to big-band and swing music. After retirement he and wife Peggy lived in Fort Myers, Fla., during part of each year. Phillips is survived by two sons, three daughters, ten grandchildren, and one great-grandchild. He was preceded in death by son Paul and daughter Marcia.

David N. Sills Jr., '46

Milford, Del.

August 6, 2007

Mercy Hospital in Baltimore was the site of Dr. Sills' internship after graduation, and he spent the next year there as an assistant resident in general surgery. From 1948 to 1950, he served in the U.S. Army Medical Corps, and from 1950 to 1953 was a general surgery resident at the University of Texas. Sills practiced general surgery and was president of the medical staff at Milford Memorial Hospital. Memberships included the American College of Surgeons as well as the Society of Abdominal Surgery. Sills enjoyed tennis, golf, fishing, gardening, furniture mak-

ing, magic, and travel. He is survived by wife Norma.

Elizabeth Coultas Stockman, '47

Morristown, N.J.

June 10, 2007

Frederic R. Simmons, '50

Sun City Center, Fla.

July 23, 2007

During World War II, Dr. Simmons enlisted as an aviation cadet in the U.S. Army Air Corp., flying in B-17s as a bombardier-navigator with the 15th Air Force Heavy Bomber Group. He logged 230 combat hours during 49 missions and was shot down during a raid over Budapest, Hungary, where he escaped from German-occupied territory by meeting up with the Russians. Decorations included the Purple Heart and the Air Medal with two oak leaf clusters. He completed his undergraduate degree after his discharge, and after medical school Simmons re-entered the Air Force as a medical officer. He completed training at Walter Reed Army Hospital before residency training in pediatrics at Johns Hopkins and Baltimore City Hospital. Simmons was a flight surgeon and pediatrician while with the Air Force, and he was discharged as a major. He moved his family to Daytona Beach, Fla., in 1956 and entered private practice as a pediatrician, where he remained for nearly 30 years before retirement. In practice he served on the board of the Florida Pediatric Association and was chief of pediatrics for Halifax Hospital. Simmons enjoyed reading, golf, and boating. He is survived by wife Vera, two daughters, four sons, and 14 grandchildren.

Samuel J. Abrams, '54

Baltimore

September 16, 2007

Dr. Abrams received his training at Sinai Hospital in Baltimore where he spent

his entire medical career as a general and pediatric surgeon. He also served as chief of surgery at Baltimore County General Hospital. His passion was preserving history, and he built a number of exhibits at Sinai including a recognition wall recognizing virtually every employee of the hospital. Abrams was an ardent supporter of the medical school, serving as chair of the MAA's Davidge Hall Committee during the 1980s and 1990s and overseeing the building's conservation plans as well as its museum collection. In September 1996, he presented a paper on Davidge Hall in Greece before the 35th International Congress of the History of Medicine. He was a consultant and portrayed Dr. John Davidge in the 1997 production of *Ars Medicinae*, a video tracing the founding of the medical school that continues to be shown today to incoming students. He served as a volunteer caller for the MAA's annual phonathon in Davidge Hall and was a member of the John Beale Davidge Alliance, the school's society for major donors. Survivors include wife Elaine, two sons, and three grandchildren.

Ralph D. Natale, '59

Towson, Md.

August 25, 2007

Edward F. Quinn III, '69

Milford, Del.

July 3, 2007

Dr. Quinn interned at Ohio State University in Columbus before orthopaedic residency training at the U.S. Naval Hospital in Bethesda, Md. He served in the U.S. Navy and achieved the rank of lieutenant commander. Quinn was chief of surgery at Milford Memorial Hospital, and in 1975 was founder of the Dickinson Medical Group. He served on the staffs of Kent General Hospital in Dover and Beebe Medical Center in Lewes. Quinn was a past president of the Medical Society

In Memoriam

of Delaware and a member of the board of Quality Insights of Delaware. Memberships included the American Legion Post 3 and Milford Elks Lodge 2401. He enjoyed world travel and reading, and he readily shared his expertise on a variety of topics including medicine, politics, language, and history. Quinn was preceded in death by wives Laura and Audrey, and he is survived by fiancée Judi Muir, one son, two stepsons, and a granddaughter.

Faculty & Staff

Edward N. Brandt Jr., MD, PhD
Oklahoma City, Okla.
August 25, 2007

Dr. Brandt served as president and chancellor of the University of Maryland Baltimore from 1985 to 1989. Brandt was born in Oklahoma City in 1933 and received bachelor of science, MD and PhD degrees from the University of Oklahoma. He later earned a master's degree from Oklahoma State University. In 1981, President Reagan nominated Brandt to serve as assistant secretary of health at the U.S. Department of Health and Human Services, overseeing the Centers for Disease Control and Prevention, the Food and Drug Administration and the National Institutes of Health. He was highly praised for his team's response to the first cases of HIV and AIDS, as they were able to determine the nature of the disease and how it spread. While assistant secretary, Brandt served as the U.S. representative to the executive board of the World Health Organization and established the first Public Health Service Task Force on Women's Health. After serving at Maryland for four years, Brandt became executive dean of the University of Oklahoma College of Medicine and served in recent years as professor emeritus at its College of Public Health.

Keith Morgan, MD
March 2007

Dr. Morgan served on the faculty in the department of medicine during the 1960s. His specialty was pulmonary diseases and, in particular, industrial dust diseases such as asbestos.

Jerome Styrt, MD
Baltimore
June 10, 2007

Dr. Styrt was an instructor and professor of psychiatry at Maryland in the 1990s and served as an instructor at John Hopkins University School of Medicine. He was a resident supervisor at Sheppard and Enoch Pratt Hospital and a faculty member of the Baltimore Psychoanalytic Institute. Born in Chicago, Styrt received his bachelor's degree in chemistry at the University of Chicago before earning his medical degree at the University of Chicago School of Medicine in 1945. During his residency training at the Sheppard and Enoch Pratt Hospital in Towson, Styrt served as an assistant medical officer in England at the Retreat in York and Belmont Hospital in Sutton, Surrey. He continued his psychiatry training at the Johns Hopkins University through 1950 and served the U.S. Public Health Service during the Korean War before returning to Maryland in 1953. In 1989, Sheppard Pratt awarded Styrt a distinguished teaching award, and in 1995, he earned an outstanding volunteer faculty teaching award from Maryland. Styrt enjoyed playing tennis, golf, and squash in his spare time, and had a passion for art and music. He is survived by wife Mary, two children, and one grandchild.

Raymond E. Vanderlinde, PhD
Catonsville, Md.
July 21, 2007

Dr. Vanderlinde was an assistant and later associate professor of biochemistry

at Maryland from 1950 to 1957. Born and raised in Newark, N.Y., he earned a bachelor's degree in science education from Syracuse University in 1944. This was followed by a master's degree in science education in 1945, a master's in organic chemistry in 1947, and a doctorate in medical biochemistry, all earned at Syracuse. After teaching at Maryland, Vanderlinde held teaching positions in biochemistry and pathology at Syracuse, West Virginia University, and Albany Medical College. From 1962 to 1965, he served as associate laboratory director and clinical chemist at Memorial Hospital in Cumberland, and he was director of clinical chemistry for the New York State Department of Health from 1965 to 1977. Vanderlinde was at Hahnemann from 1977 until retirement in 1990. Afterwards he advocated for patients' rights as a public member of the institutional review board at St. Agnes Hospital. Vanderlinde was a board member of the Friends of the Catonsville Public Library and volunteered in the library's historical and genealogy section. In 2003, he published *The History of Charlestown*. Vanderlinde was an auto enthusiast and collector, and drove several of his cars in the Catonsville's Independence Day parade. He is survived by wife Ruth, one son, two daughters, and three grandchildren.

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Tentative Schedule

Reunion

Friday, May 2, 2008

8:30–10:30 a.m.	Open House, Check-In, & Continental Breakfast, Davidge Hall	1:30–3:30 p.m.	Afternoon Check-in, Davidge Hall
9:00–9:45 a.m.	Finance, Retirement, & Estate Planning	1:30–3:00 p.m.	14th Annual Historical Clinicopathological Conference
10:00–11:00 a.m.	School of Medicine Update, Dr. E. Albert Reece, Dean	3:30–4:30 p.m.	School of Medicine Tour
11:15 a.m.–1:15 p.m.	133rd MAA Recognition Luncheon, Westminster Hall	6:30–9:30 p.m.	The MAA Crab Feast, Baltimore Museum of Industry

Saturday, May 3, 2008

8:30 a.m.–1:30 p.m.	Open House & Check-In, Davidge Hall	11:30 a.m.–1:00 p.m.	Baltimore City Land & Sea Tour I
8:30–10:00 a.m.	Continental Breakfast, Davidge Hall	1:00–1:45 p.m.	200 Years of Medicine at Maryland: A Historical Perspective
9:00 a.m.–1:00 p.m.	Excursion to the World War II Memorial, Washington, DC	1:00–2:30 p.m.	Baltimore City Land & Sea Tour II
10:00–11:00 a.m.	Campus Walking Tour	1:35 p.m.	Baltimore Orioles Baseball
11:00–11:45 a.m.	Restoring Davidge Hall: An Update	Afternoon/Evening	Class Reunions (years ending in “3” and “8”)
11:30 a.m.–2:00 p.m.	Complimentary Picnic, Davidge Hall		

Sunday, May 4, 2008

10:00 a.m.–1:00 p.m.	Brunch with the Dean, The Reginald F. Lewis Museum of Maryland African-American History & Culture
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Bulletin

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Winter 2007–2008 • Volume 92 • Number 3



Combat with a Giant Killer

AIDS & Maryland's Institute of Human Virology



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University of Maryland Medical Alumni Association & School of Medicine



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features

Combat with a Giant Killer: AIDS & Maryland's Institute of Human Virology

Founded more than a decade ago as a partnership among the state, city, university system, and hospital, the Institute of Human Virology officially became the medical school's first institute in July 2007. Its mission is to advance treatment and prevention of life-threatening viral diseases, especially AIDS. Recently, the institute received a sizeable endorsement—a \$15 million grant from the Bill & Melinda Gates Foundation—to develop an AIDS vaccine. Heading the Institute is Robert C. Gallo, MD.

Reversing Trends in Family Medicine

In November the department of family and community medicine celebrated the 35th anniversary of its residency training program, one of the oldest programs in the country. The observance included a variety of activities including a lecture and resident reunion. In addition to the numerous accomplishments recognized, there were also concerns expressed over the future, as the number of students choosing family medicine has been declining in recent years. But spend a few minutes with David L. Stewart, MD, MPH, chair of the department, and you get the impression they are about to reverse the trend.

Alumnus Profile: Elijah Saunders, '60 Battling the Silent Killer

For nearly 40 years Elijah Saunders, '60, has led a crusade against hypertension, a disease which kills one African American every hour. For most victims, they don't realize they are sick until it is too late. Since 1984, Saunders, a cardiologist, has served as professor of medicine and head of the hypertension section. Even at age 72, he continues to wage his battle.

departments

Dean's Message

News & Advances

Faculty News

Allied Health

Advancement

Student Activities

Recollections

Class Notes

In Memoriam



The University of Maryland School of Medicine has now entered its third century. What an accomplishment! And what an opportunity it presents to rededicate ourselves to our missions of discovery, healing and teaching. Our bicentennial celebration was exciting and permitted us to highlight our past as we celebrated our accomplishments of the last 200 years. Now it is time to change course and focus on the next 200 years of history-making discoveries.

What's on my mind is change. Change, as you know, is a good thing. It's necessary, and it happens whether we like it or not. As such, we thought it was a good time to change—to update—the *Bulletin*. We've renamed our venerable publication. It is now called *University of Maryland Medicine Bulletin*. Because we are also widening our circle of friends and colleagues to whom this magazine is sent, we wanted it to be immediately obvious with which medical school the magazine is affiliated. *University of Maryland Medicine Bulletin* will continue to provide alumni with important news about their alma mater, and will provide our friends with articles relevant to science and medicine in the 21st century.

You'll notice in this issue a new look to America's oldest medical alumni publication—more pages, more photographs, and more news. You'll see an additional feature story each issue, as well as more pages devoted to faculty accomplishments, allied health news and our development enterprise.

Speaking of development, did you know that your generosity compares favorably to our peers? According to the latest Association of American Medical Colleges development survey (2006), the University of Maryland School of Medicine ranks 14th in total private support among all public and private medical schools. Nationally, private support to public medical institutions decreased by three percent from 2005 to 2006. Here, at the University of Maryland, our private support increased by five percent! That is quite an accomplishment and one for which we should all be proud.

As I have indicated in a number of previous messages, philanthropy will play an increasingly important role in this institution's current and future success. As we develop our vision plan for the next five years and beyond, the University of Maryland School of Medicine will look and act more like a private institution. Toward this end, we will rely on private support to enhance our academic programs, bolster our research initiatives and transform our patient care efforts.

The editorial board and I look forward to hearing your feedback on the "new" *Bulletin*. 🏛️



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
University of Maryland
John Z. and Akiko K. Bowers Distinguished
Professor and Dean, School of Medicine

Our bicentennial celebration was exciting and permitted us to highlight our past as we celebrated our accomplishments of the last 200 years. Now it is time to change course and focus on the next 200 years of history-making discoveries.

EVENTS National Women Physicians' Exhibition Stops at Maryland

A traveling exhibition highlighting women in medicine spent five weeks at the health sciences and human services library beginning in late summer. Sponsored by the National Library of Medicine and the American Library Association, *Changing the Face of Medicine: Celebrating America's Women Physicians* traces the struggle of women entering the medical profession in America some 200 years ago and many of their advances since then. In addition to including biographies of outstanding women physicians, the display features interactive kiosks posting educational opportunities and information about medical careers. The university celebrated the exhibit's opening by staging a one-act, one-woman play in Davidge Hall on September 11 entitled *A Lady Alone*. The performance featured Boston-based actress Linda Gray Kelley portraying Dr. Elizabeth Blackwell, the first woman in America to receive a medical degree. The exhibit ran from August 15 through September 28 and also was supported by the National Institutes of Health Office of Research on Women's Health, the American Medical Women's Association, and the Medical Alumni Association. Maryland was one of only 60 sites across the nation chosen to host the exhibit.



M.J. Tooley, director of Maryland's health science and human services library, and Manor Parry of the National Library of Medicine

EVENTS Reno, McEwen Headline Final Bicentennial Hippodrome Lecture

The bicentennial lecture series at the Hippodrome Theater concluded September 24 with a presentation on the central nervous system from the point of view of both doctors and patients. Once again, the host was television correspondent Dr. Bob Arnot. "I keep coming back because of the great speakers, like Mark McEwen (a former colleague at CBS). He taught me everything I know about television."

William Weiner, MD, professor and chair of the department of neurology at the medical school, was the first presenter. Weiner is a renowned Parkinson's expert and primary author of The American Academy of Neurology's new guidelines for diagnosing and treating Parkinson's disease. After giving a brief overview of Parkinson's, he detailed the cutting-edge work his department is doing

in the treatment of that disease and other movement disorders.

Nancy Wexler, PhD, was part of the team of scientists who invented the chromosomal test that allows those at risk for Huntington's disease to find out if they will develop this hereditary, untreatable and fatal brain disorder. This work is quite personal to Wexler, who at age 21 lost her mother to Huntington's, and who has a one in two chance of developing the disease herself. Her presentation, entitled *The View from the Bridge*, was meaningful because "I consider myself a bridge between the science and the family," says Wexler. "You really have to have the participation of both to treat disease, and I think that's what the medical school has fostered by having these seminars."



Dean E. Albert Reece, MD, PhD, MBA thanks the speakers (from left) Janet Reno, and Nancy Wexler, PhD and William Weiner, MD

[continued on page 4]



Media personalities and presenters Mark McEwen and Bob Arnot, MD

Family support was critical to former network TV weatherman Mark McEwen after he was struck down by a massive stroke a year and a half ago. He credited his wife, two daughters and twin sons with giving him the strength to endure the long and sometimes frustrating physical rehabilitation that brought him back to television from the brink of death. "My doctor told me nine of 10 people who have the stroke I had die," McEwen reveals. "I'm number 10. What I knew about a stroke before I had one was nothing. What I know now is a lot," he adds. "And I think it's important to get the word out. People need to have hope. This is hard, but they can come back. There is life on the other side of a stroke. I'm an example of that."

The Honorable Janet Reno is also living in the public eye with a debilitating disease. The first female attorney general of the United States, she was diagnosed with Parkinson's disease just two years after taking that office. Rather than hide her condition, she chose to go public, educating the press about the disease, while letting them see that it did not have to interfere with normal life. "You can live with Parkinson's and enjoy life," insists Reno, who told the story of how she once outdistanced her FBI detail while kayaking, a sport she still enjoys.

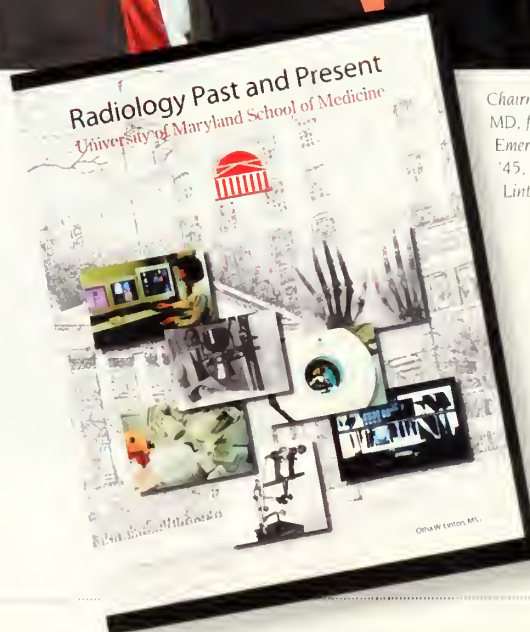
EVENTS

Radiology Book Dedicated to John Dennis, '45

The department of diagnostic radiology & nuclear medicine has produced a book tracing the history of radiology at Maryland since the first x-ray machine was purchased in 1896. The publication, written by Otha W. Linton, MSJ, and underwritten by the department, is dedicated to **John M. Dennis, '45**, who in 1954 became the department's first chairman and from 1973 to 1990 served as medical school dean. The effort to research and write the piece was spearheaded by **Reuben Mezrich, MD**, chairman of the department. On October 2, the arrival of the book was celebrated with a party at the Center Club in downtown Baltimore. This is the third time literature has been written by a medical school department to celebrate its rich heritage. Two books, authored by **Theodore E. Woodward, '38**, were written about the department of medicine, and **Ronald Goldner, '65**, recently completed the task for the department of dermatology.




Chairman Reuben Mezrich, MD, former chair and Dean Emeritus John Dennis, '45, and author Otha W. Linton, MSJ



EVENTS Regional Reception Staged in New Orleans, San Francisco, Chicago

The MAA cosponsored regional receptions this past fall, providing a social setting for several hundred alumni and faculty attending their annual meetings. Professor of plastic surgery and MAA treasurer **Nelson H. Goldberg, '73**, was joined by **Joseph S. McLaughlin, '56**, and **Stephen T. Bartlett, MD**, chair of surgery, at a gathering in New Orleans on October 8 during the meeting of the American College of Surgeons. **Peter Rock, MD, MBA**, chair of anesthesiology, served as host to more than 70 alumni and faculty in San Francisco on October 14 during the conference of the American Society of Anesthesiology. Associate professor and acting chairman **Ramzi K. Hemady, MD**, represented the department of ophthalmology & visual sciences in San Francisco on October 12 during the assemblage of the American Academy of Ophthalmology. And **Reuben Mezrich, MD**, chair of the department of diagnostic radiology & nuclear medicine, held his annual get-together at Cite Restaurant in Chicago on November 26 during the annual event for the Radiological Society of North America.

EVENTS Cordell Portrait Returns to Library

A familiar face has returned to the health sciences and human services library. The portrait of historian **Eugene Cordell**, class of 1868, damaged by water more than 15 years ago, has been fully restored. Cordell authored several books on the early history of organized medicine in Maryland and served as professor of history at the medical school in the later part of the 19th century. The rendering was restored under the direction of the Davidge Hall Committee and funded by the Medical Alumni Association. It is proudly displayed on the fifth floor of the library outside the Woodward Historical Suite. 



Milford M. Foxwell Jr., '80, chair of the Davidge Hall Committee views the Cordell portrait with Richard Belle, Maryland's historical librarian

[Coming Up:]

Promoting Diversity in Health Care & Medical Education



The medical school, its program on minority health and health disparities, and the Medical Alumni Association are jointly sponsoring a dinner on February 9 promoting diversity in health care and medical education. The invited speaker is **Luther T. Clark, MD, FACC**, regional director for scientific affairs for atherosclerosis in the division of external medical and scientific affairs at Merck & Co. He is a former chief of the division of cardiovascular medicine and professor of clinical medicine at the State University of New York in Brooklyn and director and principal investigator of the NIH-supported Brooklyn Health Disparities Research Center. The event takes place at the Center Club and begins with a reception at 6:30 p.m., followed by dinner at 7:30. Tickets are \$130 and can be purchased through the Medical Alumni Association by calling 410.706.7454.

Transitions



Anthony Lehman, MD, MSPH



Jill Rachbeisel, MD

Anthony Lehman MD, MSPH, professor and chair in the department of psychiatry, will take a six-month UMB-approved sabbatical between January 1 and June 30, 2008. During Lehman's absence, **Jill Rachbeisel, MD**, associate professor, will serve as acting chair of the department. Rachbeisel completed her residency training at Maryland in 1989 before joining the faculty. Since that time she has played many vital roles in the clinical and teaching programs of the department. Currently, she is director of the division of community psychiatry, and prior to that position, was director of adult and geriatric psychiatry. Rachbeisel has proven herself to be a strong and effective

leader with clear gifts for putting patients and students first; under her leadership the research programs within the division of community psychiatry have grown, and she has pioneered efforts to promote evidence-based treatments in the division, an effort that has attracted statewide attention.

William C. Gray, MD, associate professor in the department of otorhinolaryngology-head and neck surgery since 1977, retired in October. After receiving his medical degree with distinction from George Washington University in 1973, Gray arrived at Maryland for his training in otolaryngology and never departed. During his tenure at Maryland, he has performed basic and clinical research to identify new methods for treating head and neck cancer. His clinical practice focused on cancer of the head and neck, as well as general otolaryngology and pediatric otolaryngology. He was medical director of Maryland's tinnitus and hyperacusis center. Gray was named one of Baltimore's top doctors by *Baltimore* magazine in 1992, 1995, and 1997. His service to Maryland included advising and mentoring incoming students, providing lectures to the second-year medical student interest group, and clerkship director for third-year students. More than 100 faculty, staff, and alumni gathered in Davidge Hall on October 15 to pay tribute to the retiring professor. Speakers included department chair **Scott E. Strome, MD**, SOM dean **E. Albert Reece, MD, PhD, MBA**, UMB president **David J. Ramsay, DM, DPhil**, and UM System chancellor **William E. Kirwin, PhD**. 🏛️



William C. Gray, MD, foreground, with chair Scott E. Strome, MD, USM chancellor William E. Kirwin, PhD, SOM dean E. Albert Reece, MD, PhD, MBA (second row left to right), and his colleagues

Sharon Boston • Rebecca Ceraul • Ellen Beth Levitt • Larry Roberts • Bill Seiler • Karen Warmkessel

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Fed Renews Contract for Testing Vaccines

The National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health, has renewed its contract to conduct clinical trials of promising vaccines and therapies for infectious diseases. Maryland's center for vaccine development (CVD) will receive \$23.7

million over seven years as a vaccine and treatment evaluation unit (VTEU) for NIAID. The CVD VTEU and seven other VTEUs will enhance NIAID's ability to quickly respond to emerging public health needs.

"As a VTEU, our center has been testing vaccines for the federal government for more than three decades, focusing on preventing a wide array of infectious diseases that affect children, adults and the elderly," says **Karen Kotloff, MD**, a professor of pediatrics and medicine and principal investigator on the VTEU grant. "Investigators at the CVD have a tremendous appreciation for the potential impact of vaccines as a public health tool. This renewal from the NIAID provides us with a wonderful opportunity to continue our commitment of bringing new and improved vaccines to populations who can benefit from them the most."

Established in 1962, the VTEUs are a national resource for vaccine development. "The program has been instrumental in facilitating the clinical development of vaccines that are important for public health," says Kotloff. "These include vaccines for diseases such as pandemic and seasonal influenza, whooping cough, Norwalk virus, and sexually transmitted diseases such as herpes—which are common in the United States—as well as malaria, dysentery, cholera and typhoid fever—illnesses that primarily affect people in developing countries."

"New and improved vaccines to protect the public against a bioterrorism threat with smallpox, anthrax and other diseases have also been tested," Kotloff continues. "The program has also advanced the development of vaccines that pose particular scientific challenges, such as those for group-A streptococcal infections."

In addition, "we have conducted several hundred studies at our VTEU over the years, and many innova-



Karen Kotloff, MD

tive approaches for vaccine delivery have been tried, including edible vaccines, needle-free injection and skin patches," Kotloff says.

Most recently, the CVD VTEU participated in a large-scale trial to evaluate the seasonal influenza vaccine Fluarix for use in healthy adults in the United States. The trial yielded the clinical information needed to win approval from the U.S. Food and Drug Administration (FDA) in August 2005—less than a year after the trial began. This approval helped reduce the impact of future delays or shortages of seasonal influenza vaccines in the United States.

The CVD VTEU also conducted multiple studies in 2005 and 2006 on a vaccine for a potential pandemic strain of influenza to determine the most effective dose. Those studies led to the licensure of the first FDA-approved vaccine against a strain of H5N1 avian influenza virus. In the future, the CVD VTEU and the seven other VTEUs will conduct studies to determine the best timing of vaccinations in different populations against the H5N1 influenza virus.

The NIAID supports basic and applied research to prevent, diagnose and treat infectious diseases such as HIV/AIDS and other sexually transmitted infections, influenza, tuberculosis, malaria and illness from potential agents of bioterrorism. NIAID also supports research on basic immunology, transplantation and immune-related disorders, including autoimmune diseases, asthma and allergies. 🏠

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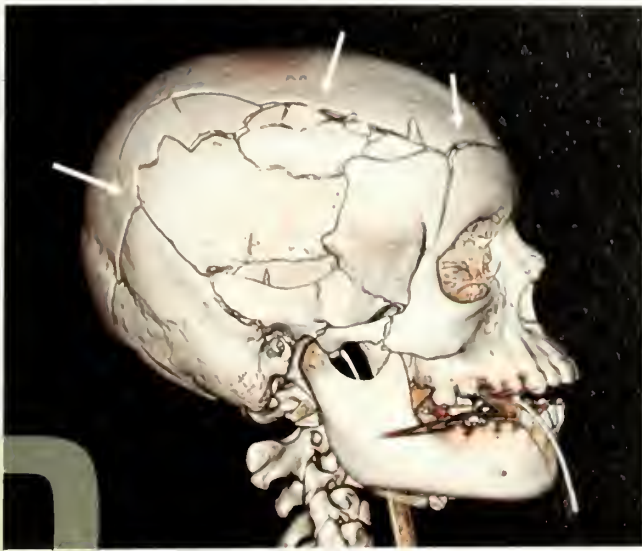
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CT Scans an Alternative to Autopsy?

found that CT provided additional information to help with the investigation, including locating all 26 major ballistic fragments recovered from the victims in the conventional autopsies.


"Autopsy is mandatory in deaths involving gunshot wounds; so CT may serve as a powerful complement to the conventional exam," says Daly, who is also a radiologist at the medical center. "Performing CT imaging first may speed up a conventional autopsy, especially when it comes to locating ballistic fragments which are important in criminal investigations."

Most states require an autopsy in cases of sudden or unexplained death resulting in approximately 4,000 full autopsies last year in Maryland. While a forensic medical examiner requires several hours to conduct a full autopsy, a multi-detector CT scan along with the interpretation of the images, can be performed in about 30 minutes. Also, the CT is non-invasive; so it does not damage or destroy key forensic evidence.

"CT has been used in autopsies of American soldiers and in a few countries around the world. While the preliminary results are promising, more research is needed to show that CT could be widely used within the U.S. medical examiners system," says Daly.

The researchers have also received a \$292,000 grant from the National Institute of Justice, part of the U.S. Department of Justice, to look at the use of CT autopsy to investigate deaths related to possible elder abuse. The two-year project will evaluate 80 cases referred to the medical examiner because of suspected abuse.

"The use of image-assisted autopsy to detect possible abuse of the elderly offers great potential," says Fowler. "Our office and those of medical examiners nationwide are seeing increasing numbers of suspected elder abuse cases. With some state governments considering mandatory autopsies for all deaths in residential care and assisted-living facilities, we have been challenged to find new ways to accurately and rapidly assess the causes of these deaths."

Investigators will use a full-body CT scan that generates up to 3,000 detailed, high-resolution images. Radiologists will then use special computer software to reconstruct the separate images into three dimensional views, tailored to the specific needs of each case. The imaging evaluation will be compared with results of the medical examiner's visual assessment and full autopsy. 

R

esearchers from the medical school and the State of Maryland Office of the Chief Medical Examiner say that "virtual autopsy" using a CT scanner may offer a reliable alternative to conventional autopsy in certain cases and serve as a tool for gathering forensic evidence. The researchers presented findings from their preliminary study at the Radiological Society of North America meeting on November 27, 2007, in Chicago.

"CT is a sensitive imaging tool for detecting injuries and cause of death in victims of blunt trauma," explains **Barry Daly, MD**, professor of radiology. "Our study shows that when there are major injuries, such as those resulting from a motor vehicle accident, CT may provide enough information so that a conventional autopsy would not be needed."

"If we can show that image-assisted autopsy is as reliable as physical autopsy, it has the potential for a significant savings in time, effort and expenditure. It may also offer a possible compassionate alternative for those families whose religious and personal beliefs preclude a full autopsy," says David R. Fowler, MD, chief medical examiner for the state.

In the study, investigators used a whole-body, multi-detector CT to evaluate the cause of death and forensic evidence in 20 cases: 14 were victims of blunt trauma and six were victims of a penetrating wound made by either a knife or gun. Two radiologists reviewed the scans to determine a cause of death and compared their conclusion with the results of a conventional autopsy performed by state forensic medical examiners.

The CT evaluation matched the medical examiner's cause of death in all 14 blunt trauma cases and in five of the six penetrating wound cases. In terms of evidence gathering, the radiologists and forensic medical examiners concluded that the CT findings were comparable to conventional autopsy in 13 of the 14 blunt trauma cases. In five of the six penetrating wound cases, they

Combat with a



Robert C. Gallo, MD

By Rita M. Rooney

Giant Killer

AIDS & Maryland's Institute of Human Virology

M

edical researchers often keep a bottle of champagne on hand, ready for those celebratory moments when work representing years of fierce dedication can be labeled a success. Robert C. Gallo, MD, professor of medicine and director of the institute of human virology (IHV), a scientist internationally recognized as one of the most important in the world, has no such champagne stash in his office, however.

"Success is over too fast. I have to look ahead to the next challenge. There's always something that has been overlooked, something more that needs to be done."

So says the man who co-discovered the HIV virus, was the first to mass produce it and prove that it is the cause of AIDS, and who then went on to develop the blood test to definitively diagnose the infection.

Founded in 1996 as a partnership among the state of Maryland, City of Baltimore, University System of Maryland, and the University of Maryland Medical System, IHV formalized a 10-year relationship when it became the medical school's first institute early in 2007. Its mission is to advance treatment and prevention of life-threatening viral diseases, especially AIDS. Its primary target, among many, is the successful development of an AIDS vaccine. That goal received formidable endorsement in the form of a \$15 million, five-year grant from the Bill & Melinda Gates Foundation in July 2007.

E. Albert Reece, MD, PhD, MBA, vice president for medical affairs for the university and dean of the medical school says, "This prestigious grant again underscores the strength of the institute's mission in channeling cutting-edge research toward the elimination of the AIDS menace."

Strongly rooted in a translational approach in which ideas flow freely between laboratory and clinic, Gallo and associate directors William Blattner, MD, and Robert Redfield, MD, both professors of medicine, head a fully integrated program that includes clinical and laboratory research, treatment, patient counseling and outreach support, epidemiology, public health, an experimental drug initiative, and an animal model program. The three men, whose medical backgrounds are grounded in research, meet regularly to collaborate.

During the infant years of AIDS research, fears both real and imagined were widespread. No one knew how contagious the infection was. Many laboratories barred the use of AIDS samples. Gallo, then a National Institutes of Health (NIH) researcher, had to learn how to grow and mass produce the virus. His laboratory worked closely with the Centers for Disease Control (CDC) to predict its presence. The blood test he and his colleagues developed was purchased from the NIH by the government, and in 1985 brought to market and licensed to several pharmaceutical companies. The significance of that single achievement

Photo by Richard Lippenholz



Robert Redfield, MD

In addition to Redfield's clinical research and treatment in Baltimore, he heads an extensive treatment program in nine African countries, working with faith-based hospitals serving 135,000 people, 80,000 of whom are on anti-retroviral medications.



is reflected in the absence of panic that had so recently gripped the world. The likelihood of AIDS being transmitted through blood transfusion was no longer a threat. Additionally, the test made it possible to diagnose and follow patients from the earliest stages of infection, instead of losing those years the disease can take before becoming full blown.

Shortly before leaving the NIH, Gallo and his colleagues discovered the first natural molecules known to block HIV infection. Called beta chemokines, the molecules are able to prevent HIV entry into a cell. It is now known that chemokines inhibit HIV by binding to the same molecule HIV uses to enter the cell. This knowledge helped in understanding the actual receptor or doorway to HIV entry, and in 1996, led *Science* magazine to laud it as the most important scientific discovery of the year.

The Vaccine Search

Gallo appears to be someone understandably burdened by the demands of time and responsibility. Words come quickly because he has much to say. Clearly, he is a man driven by the clock, as well as by a self-imposed coercion to see the end of the most devastating communicable disease of the last century. Admittedly, he lacks that supposedly indispensable quality of scientists—patience. Somewhat surprisingly, however, he will break from a serious discussion of the retrovirus and exhibit an underside of wit. As for ego, he appears too busy to indulge in it.

Commenting on the institute's progress in the development of a vaccine, for example, he says, "We don't like to make much noise about it. Noise creates expectations we may not be able to deliver."

"Developing any vaccine is extremely difficult," he says. "The time and experimentation required are prolonged. There is the inclusion of regulatory agencies, the necessary alliance with a spin-off company, and the fact that, while the current climate is indeed favorable, Maryland has not always been recognized as entrepreneurship friendly."

Those problems are compounded when attacking the HIV virus—not only because of its variation, but because it is a retrovirus that inserts itself into genes upon infection, and is in the target cell with no time to recall the immune system. At best, the immune response lasts only three to four months, and so the need for continued intensive research to sustain immunity becomes critical.

Nevertheless, the IHV team has made significant strides in overcoming such inherent obstacles. The institute has an impressive staff of developmental experts who appear to have solved the issue of variation in the virus. As for finding a start-up, IHV created its own spin-off biotech

company, Profectus BioSciences, which is partnering development with Wyeth Pharmaceuticals. Right now, the outlook is promising. If all goes well, Wyeth may take on the vaccine early in 2008, and begin clinical trials in about a year. Blattner has a program ready to be tested across the country, and Redfield has established a multifaceted therapeutic research unit poised to evaluate the vaccine's therapeutic and preventive potential.

"These are exciting times for us," Gallo says. "Still, you don't have a vaccine until you have a vaccine."

Gallo became an MD because he believed it would give him a better understanding of disease, but he knew from the age of 17 that science, specifically research related to blood cells, would be his life's work. His sister died of leukemia as a child, and he was at the National Cancer Institute (NCI), involved in virology studies aimed at leukemia, when he attended a 1982 lecture on AIDS by the CDC's James Curran, MD. Curran's words, "Where are the virologists?" challenged him. They also marked the beginning of his search to discover the virus, and ultimately a vaccine to prevent it.

"A few years before, in 1979, we had just discovered the first known human retrovirus, one that causes a specific kind of leukemia," he says. "It seemed a reasonable hypothesis that the AIDS virus was a brother of that one. As it turned out, it was a distant cousin."

Treatment: Companion to Research

Redfield's entry on the AIDS scene followed a different path. Both his parents were NIH scientists who teased him about not being a "real" doctor when he got his MD. However, he spent 20 years as both clinician and researcher at Walter Reed Army Medical Center, where he treated numerous AIDS patients during the first years of the epidemic.

"My work has been on the edge, applying science to clinical care," he says. "One of the problems with current AIDS treatment is drug resistance. We're trying to attack host cell pathways, which we believe will minimize resistance. The downside of that is toxicity. We have to do it in a way that doesn't harm the body."

Saying that he is fundamentally a physician, Redfield warms to the subject of IHV's treatment programs, housed in clinics and hospitals throughout the Baltimore area, with others slated to open soon in the prison system. Since Baltimore is one of two epicenters of the AIDS epidemic in the United States, and since five percent of affected Baltimore residents are in the zip code shared by the University, the Jacques Initiative, located on the medical school campus, has become a much needed community resource. The initiative is named for the late Joe Jacques, PhD, a psychologist and AIDS patient who provided counseling and support to other patients, and who left a \$1 million bequest to help establish the initiative at IHV.

"Science that stays on the shelf is wasted," Redfield says. "A decade ago, we started looking at poor success rates in treatment across the country. Our own success, while better



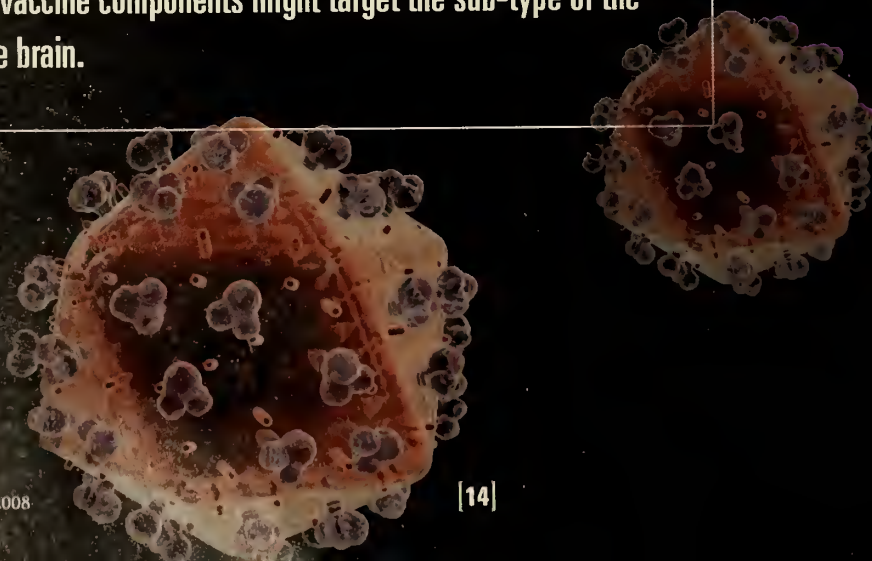
Redfield on site with patients in Africa

Photo by Richard Lippenholz



William Blattner, MD

While the studies could be performed in Baltimore, Nigeria presents a unique opportunity in that there are three sub-types of the virus in the country, allowing the team to study whether one of the sub-types is more likely than others to be associated with neuro-cognitive defects. If so, there may be neuro-virulent strains that invade the brain more easily. All this has implications for vaccine development, and the need to determine if additional vaccine components might target the sub-type of the virus in the brain.



than some, was not acceptable to us. In the beginning, we were dealing with an untreatable disease; so any success at all looked good. We became concerned because when treatment is unsuccessful, the virus becomes resistant."

Studies showing that as much as 25 percent of newly infected virus is resistant to treatment caused Redfield to fear the resistant virus could penetrate certain populations, including substance abusers, the homeless, mentally ill, urban poor, and specific ethnic groups. There was a possibility that, 20 years hence, there would be two epidemics—one treatable, one not.

A critical underpinning of AIDS treatment is the importance of taking medications as directed. A patient who misses two out of 21 doses will fail therapy 50 percent of the time. The Jacques initiative engages people in the rigors of care before administering any medications. Both patients and families are educated and prepared for therapy. They receive support from treatment coaches, people like themselves who have been through it, who have made the same mistakes, and suffered the same consequences. Their medication regimens are monitored—every dose, every day, every week of the year. Redfield believes this kind of scrutiny, coupled with the clinic's insistence on preparing patients for care, constitutes one of IHV's most valuable treatment contributions to the Baltimore community.

In addition to Redfield's clinical research and treatment in Baltimore, he heads an extensive treatment program in nine African countries, working with faith-based hospitals serving 135,000 people, 80,000 of whom are on anti-retroviral medications. The initiative, in which Catholic Relief Services is the primary grantee of funding from the President's Emergency Plan for AIDS Relief (PEPFAR), employs the same peer support and identical education and preparation for treatment used in IHV's Baltimore clinics. The program boasts a 70 to 90 percent success rate.

PEPFAR in Nigeria

While Redfield heads clinical programs, Blattner's work uses broad-based and clinical research to determine HIV pathogenesis, risk factors and prevention. An oncologist who conducted epidemiology studies at NCI, he worked periodically with Gallo beginning in 1975, and became one of three founding members of IHV. He is director of the institute's vaccine trials unit, and heads the AIDS Care and Treatment in Nigeria (ACTION) project, an international treatment program which recently received a \$43 million PEPFAR grant.

"The program is a crucial one that has allowed us to set up a large affiliate in Nigeria, one that integrates public health, science and clinical research. As of now, we have provided care and treatment to approximately 240,000 people including 40,000 who are on antiretroviral drugs. We have also prevented more than 46,000 mother-to-child transmissions of HIV."

Blattner, whose wife and four of his five children have accompanied him on trips to Nigeria, notes that PEPFAR funding covers treatment, not research. He adds that the

institute has applied for an overlying NIH grant to supplement the \$43 million.

NIH funding is earmarked as well for continued evaluation of the impact of HIV on the brain, looking at cognitive defects as they affect a patient's ability to recover. "We're studying whether the World Health Organization regimens we're using have a positive impact on neuro-cognitive defects," Blattner says. "Scientists at the University of California, San Diego, are highly regarded as experts in this area of study, and we're collaborating with them, adapting their studies to West Africa." In studying the virologic aspects associated with AIDS, the team employs epidemiology tools to develop a prospective cohort, following people for three years to see what happens to neuro-cognitive function. They then will study the pathogenesis of the virus in the brain and in the blood.


"If the virus goes into the brain, and the drug doesn't penetrate the brain effectively, then the virus may start growing, becoming resistant to the drug and leading to the failure of therapy," Blattner explains. "I'm bringing population factors into the design of the research by treating people who have never been treated, and following them for three years to see what happens. The samples are then sent back to Baltimore for basic research in IHV laboratories."

This kind of research is costly and exhaustive, demanding highly skilled personnel who need to complete profiles of all the domains of mental functioning. While the studies could be performed in Baltimore, Nigeria presents a unique opportunity in that there are three sub-types of the virus in the country, allowing the team to study whether one of the sub-types is more likely than others to be associated with neuro-cognitive defects. If so, there may be neuro-virulent strains that invade the brain more easily. All this has implications for vaccine development, and the need to determine if additional vaccine components might target the sub-type of the virus in the brain.

Cross comparisons of findings from different sites will contribute to research conclusions. Walter Royal, MD, associate professor of neurology at the medical school, shares principal investigator service along with Blattner.

"This kind of collaboration creates an environment for the medical school to have an international base, one that may enhance opportunities for funding, and ultimately may have capacity for the training of medical students seeking a world view of disease," Blattner says.

Turning back the clock just 10 years, one sees a climate of fear and ignorance surrounding AIDS. Since then, it has gone from a complex disease of unknown cause with an unequivocal death sentence, to one that, with proper treatment, can give patients many years of normal living. Yet, 22 years since the development of a simple test to diagnose HIV, 25 to 50 percent of infected Maryland residents have not been tested. So it may still be too soon for celebration.

Looking toward that day, Gallo says, "To know the world has a successful vaccine, to know this institute is responsible even partially, to see positive results—that would be a real thrill. That's when I'll break out the champagne." 

By Caelie Haines

I

n November 2007 the department of family and community medicine celebrated the 35th anniversary of its residency program, one of the oldest in the country. As David L. Stewart, MD, MPH, chair of the department, and his colleagues looked back fondly at all their accomplishments over the years, they also shared their plan on how to reverse an alarming trend: for a variety of reasons, the number of medical students choosing family medicine residency training has been steadily declining in recent years.

"We've instituted some specific initiatives to help students who arrive at medical school with an interest in family medicine and primary care retain that interest," explains Stewart, who officially became chair in December 2006 after three years as acting chair. Called the family-care track, this effort recruits first-year students with an interest in primary care. "Those who are accepted are linked with a faculty person in family medicine who becomes their mentor," says Stewart. "We also have some early clinical contact designed for those students during the first year."

This early contact is critical to getting and/or keeping medical students committed to practicing family medicine. According to the National Registry Matching Program (NRMP) website, in 2007 the department filled only two of its first-year residency spots via "The Match," when in years past it had easily filled all eight. One reason why may be how medical school itself operates. "Most medical schools are tertiary clinical operations," Stewart says. "So you may have someone who's very interested in primary care or a general discipline who is put through this very intensive experience which is at the opposite end of the spectrum. That person needs a lot of support to maintain and retain his or her interest in a discipline like family medicine."

One thing that does attract students is the opportunity to get direct clinical experience in the field. Like other departments, family medicine has a four-week clerkship for third year students, but theirs is a bit unique. "With that clerkship we keep about half the students here on campus, and half are put in offices of family practitioners throughout the Baltimore community," Stewart explains. The department also has an in-patient service, where fourth-year medical students can do sub-internships, as well as electives in family medicine for all levels of students, although the majority who take advantage of those are third- and fourth-year students.

Photos by
Richard
Lippenholz

Reversing Trends in Family Medicine



Top right: David L. Stewart, MD, MPH
At right: C. Earl Hill, '60, with Stewart
at the anniversary celebration



Clinical experience is imperative in a field where the physician often doesn't know what kind of care might be called for. "Family medicine includes the whole gamut," says Stewart. "We have a saying—'from birth to earth.'" In other words, family medicine doctors can provide obstetrical care, pediatric care, adult primary care and geriatric care. "We also do a vast number of procedurally oriented things associated with primary care, including colposcopy, simple things like suturing and dermatological problems—removal of warts and things of that nature," says Stewart. "There's this whole gamut of procedural things that family doctors can do that don't necessarily need referral to a subspecialist."

Emphasizing the range of care family medicine can provide is an important message to get across these days. "In our country, people believe that health care is about seeing the kind of doctors you want to see, when you want

to see them," explains Stewart. "Someone may want to see a dermatologist for a rash just because the patient doesn't know that a primary care doctor might be able to address such issues."

The External Forces

This increasing demand for specialists—and the higher reimbursements doctors can get for specialty care—explains why many of today's aspiring doctors aren't pursuing a general field such as family medicine. "There is so much that goes into who applies to medical school now," explains Stewart. "It tends to be cyclical, as is the pipeline of who's interested in science at a young age and who gets into the proper pipeline to eventually be a science major in college and then applies to medical school."

There is also the issue of lifestyle. "At this medical school, and I believe in medicine in general, things are



Vivienne Rose, '92

shifting from this being a very male-dominated career to more and more women entering the field," says Stewart. "And women have specific ideas around what they want their life to be like, especially if having children is a consideration. What kind of disciplines are more conducive to lifestyle, schedule, that kind of thing, all come into play. How much you earn comes into play, too, especially when the cost of education is going up. There are just so many factors that go into it, and a lot of those factors have

been forces that have not pushed people into the primary care discipline. I don't think anyone has one answer; it becomes a very murky problem when you try to settle it."

Complicating things even more is government bureaucracy. "I just read where they want to cut all physician reimbursement by a certain percent," says C. Earl Hill, '60, who is now retired after teaching for 23 years in the department. "Meanwhile, they're adding more stringent requirements in terms of reporting. It's an albatross around everyone's neck. I wouldn't want to be in practice these days because these people are really suffering. It's not attractive to students who are coming out burdened with large educational debts. That's the sad part. It's really holding primary care back."

Hill says change may be on the horizon, though. "There is a project that is being put together with the 'family' of family practice, seven organizations that make up the academic and certification board and what have you," he explains. "They're looking into the future of family practice and the things that need to be done. This is being done at the Robert Graham Center in Washington, DC, and some really strong ideas are coming out of that group that may get the attention of the government."

In the meantime, the medical school is luring many potential family medicine providers, not only with its clinical

programs but also with its location. "We certainly attract residents who are interested in providing primary care to urban families or who have an interest in the health care problems of urban people," Stewart says. "We don't make any special effort to advertise ourselves as an urban residency. Some of it is based on our location here in Baltimore, certainly—we're in the heart of the city. As a result of that, we've acquired faculty who have an interest in urban problems. So their research and academic interests tend to be around the problems of urban minority people—such things as teen pregnancy, hypertension and diabetes."

Research Focusing on Behavior

A recent change in the name of the department—from the department of family medicine to the department of family and community medicine—reflects its dedication to Baltimore's urban population. "As family physicians, we believe that a lot of what needs to be done to support health or change behaviors that affect health has to occur in the community setting rather than in an office with the patient," admits Stewart.

So the research being done within the department focuses less on basic science and more on basic behaviors. "We have Project Bridges, an effort headed by Dr. Elizabeth Barnet," details Stewart. "Her interest is in teen pregnancy, and the parents of those teens and the needs that have to be met for them to become better mothers and fathers. Her research has been community based, reaching out to people in their communities and helping support them in their role as parents. She examines the issue of the male in those families, as well as the needs of the female. More recently she's found that there's a major problem with depression among both men and women in that group. How that affects their ability to parent is one of the things she's studying. It is very cutting-edge research that sheds a lot of light on how we look at teen pregnancy and what might be some of the things we need to do to address it, especially if the goal is to interrupt recurrent pregnancies."

Vivienne Rose, '92, and Verlyn Warrington, '92, are also tackling the issue of teen parenting. "We found parents needed a lot of support in just learning how to be parents to their kids," says Stewart. "And kids needed other mentoring relationships within the communities that we serve. So now kids are coming in weekly—they actually use our conference room on Saturday mornings, and they go through things like increasing self esteem and the mentoring process. Some of it's done through sports; some of it's done through group activities. They bring their parents in, too; so the parents have interactions about the challenges they face with their children. Again, all of these things are related to improving health, but they're done at the community level, rather than the individual level."

Looking Back at Family Medicine's History

C. Earl Hill, '60, began teaching at his alma mater in 1972, when the department of family and community medicine was a much different place. "It was known as the family practice program, and it was under the supervision of the rest of the departments, because they didn't trust us, bottom line," Hill says with a rueful smile.

He and two other full-time faculty members were recruited to run the residency program, and by the time Hill left 23 years later, "I had seen 273 of our residents graduate," he boasts. "We'd become a department and had gotten into teaching students, too. We started running a very successful clinical clerkship program for third-year medical students. We attracted some wonderful help from schools of pharmacy and social work in helping teach our residents; and we had an awful lot of support from virtually every department in the hospital. Other hospitals around the city helped as well. It was a good time."

At a recent reunion of family medicine residents, Hill was the guest of honor. He looked back on his teaching days with nothing but fondness. "The students had an endless capacity for information, and it was up to us to keep that information coming and accurate," he recalls. "And to put aside the politics of the medical school, of family practice and just give them a good education; so they could be prepared, no matter what their specialty might be. That was the most enjoyable part of it. Now I'm having people come back and tell me how much they appreciated it, which means so much."

The department is also finding partners within local communities to help spread the word about better health. "We have an extensive ongoing program with hypertension and cardiovascular disease in West Baltimore, working with the state and the CHAMP (Community Health Awareness and Monitoring Program) organization," Stewart explains. "It revolves around early detection of hypertension and changing the lifestyle behaviors of individuals who live in those communities to address hypertension, cardiovascular disease and diabetes. A lot of that work is done through churches, but it's not limited to churches; some of it is also done through community organizations in the neighborhoods. I think all of that helps us live up to our name."

As the department grows its reputation, its patient base also continues to grow. "We had been averaging around 100 or so new patients a month, without us doing a bunch of advertising. Then last month it jumped to 200 people," reveals Stewart. "We have around 40,000 visits a year. So it's a very busy, very vibrant practice, to say the least."

As for the makeup of these patients, "they're people from all over," Stewart says. "People on campus are coming in. (The family medicine clinic is the student health site for the campus and the employee health site for the medical school and a number of other related entities.) Changes

are going on with housing downtown, and those people are trying to access us. I was just supervising one of the residents, and a new patient came in with a cycling injury, and he said he wanted to come here because he thought it was a good place to get quality care. People are just looking for good doctors. And we have those."

In order to keep turning those out, however, help is needed. "We're aggressively working on developing philanthropic support for primary care," Stewart admits. "If people come in to get a kidney transplant, it's very easy for them to decide, 'Oh, I'd like to give the transplant program a gift.' Primary care is a bit different, but we believe that developing that kind of philanthropic support for what we do is important. And we've had some success."

This success has come from showing people that family medicine is more than just seeing patients. "The type of education we provide is needed no matter what discipline you go into," says Stewart. "Some of what we do as far as educating medical students—teaching about interacting with other physicians and interacting with the public, about professionalism—are things we can do very well because we're generalists. I think people are appreciating



Verlyn Warrington. 92

now that this is unique and should be supported. It's a real challenge for us, but something we will be improving over the coming years." 🏛️

faculty

Awards & Honors in National Organizations

Michael S. Donnenberg, MD, professor and associate chair for research in the department of medicine, has been elected to the American Academy of Microbiology (AAM). This is the honorific leadership group within the American Society for Microbiology. The AAM is the only group of its kind devoted entirely to microbiologists and the science of microbiology. Members of the AAM are elected through an annual, highly selective, peer-reviewed process based on their records of scientific achievement and original contributions that have advanced microbiology. The mission of the AAM is to recognize scientists for outstanding contributions to microbiology and provide microbiological expertise in the service of science and the public.

Lindsey Grossman, MD, professor in the department of pediatrics, was appointed to a three-year term on the *Pediatrics in Review* editorial board, effective July 1, 2007. Selected by the board of directors of the American Academy of Pediatrics, members are chosen by their role in the development and success of the journal, and their commitment to serve the American Academy of Pediatrics.



Renee Ellen Fox, MD

Renee Ellen Fox, MD, associate professor in the department of pediatrics, has been selected as a Robert Wood Johnson Health Policy Fellow for 2007-2010. She is one of eight mid-career health professionals

chosen to spend a year in Washington, DC, beginning in September 2007. The fellows were chosen on a competitive basis from nominations submitted by academic institutions, nonprofit health care organizations and other community-based providers. Fox is the first faculty member of the medical school selected for this fellowship. The fellows spend a year in Washington, DC, working in a congressional office or the executive branch. During that time, they will enrich their understanding of public policy practices and the ways government health research relates to the mission of their home institutions and local communities. Afterward, the fellows will return to their com-

munities to apply their experiences to improving health policy and management locally. The fellows also receive additional funds for up to two years so that they may continue their development as health policy leaders. The Robert Wood Johnson Health Policy Fellowships Program is the nation's most prestigious learning experience at the nexus of health science, policy and politics.

Amy M. Fulton, PhD, professor in the department of pathology and program in oncology, was appointed to the editorial board of the journal *Cancer Research*.



Stephen B. Liggett, MD

Stephen B. Liggett, MD, professor in the departments of medicine and physiology, was appointed co-chair of the National Heart, Lung and Blood Institute Lung Microbiome Initiative and led

a workshop on the topic in July 2007. He was also appointed to the editorial boards of the journals *Clinical Medicine: Respiratory and Pulmonary Medicine* and *Molecular Diagnosis and Therapy*.

Stephen G. Reich, MD, professor in the department of neurology and co-director of the Maryland Parkinson's Disease and Movement Disorders Center, was appointed to the editorial board of the *Movement Disorders* journal.



Stephen G. Reich, MD



Andrew P. Goldberg, MD, professor in the department of medicine, was awarded the 2007 Joseph T. Freeman Award from the Gerontological Society of America. This lecture-ship award in geriatrics is given to a prominent

physician in the field of aging—both in research and practice—who is a member of the Society's Health Sciences section. Goldberg received the award for his contributions to research in exercise physiology, obesity and metabolism research in aging, mentoring of young investigators and leadership in academic gerontology. The Freeman Lecture is one of the highlights of the Society's Annual Scientific Meeting.



Andrew P. Goldberg, MD



Jon Mark Hirshon, MD

Jon Mark Hirshon, MD, associate professor in the department of emergency medicine, was named an outstanding reviewer for 2006 by Academic Emergency Medicine. The award is bestowed

on reviewers who provide excellent service to the journal by delivering high quality, timely reviews in their specific areas of interest and expertise. Hirshon reviewed manuscripts on a number of topics related to the interface of emergency medicine and public health, including injury prevention, infectious disease and health policy.

Nancy Ryan Lowitt, MD, EdM, FACP, associate dean for faculty affairs and professional development and assistant professor in the department of medicine, was selected to be a Harvard Macy



Nancy Ryan Lowitt, MD, EdM, FACP

Scholar in Comprehensive Assessment in Health Science Education in March 2007. Lowitt also served as a reviewer of faculty development grants in April 2007 for the

Health Resources and Services Administration Objective Review Committee.

Eliot L. Siegel, '82 professor in the department of diagnostic radiology & nuclear medicine, was chosen as one of the top radiologists, and **Paul G. Nagy, PhD**, associate professor, was chosen as one of the top imaging informaticists, in the second annual *Medical Imaging* magazine Top 10 Awards, published in April. Siegel and Nagy were chosen by readers from across the country.

Events, Lectures & Workshops

Ashraf Badros, MD, associate professor in the department of medicine and program in oncology, presented "Dysregulation of Parathyroid Hormone (PTH), 25-Hydroxyvitamin D (vit-D) and Calcium/phosphorus Homeostasis in Multiple Myeloma (MM) Patients (pts): What are the risks?" at the XIth International Workshop on Multiple Myeloma & IVth International Workshop on Waldenstrom's Macroglobulinemia on Kos Island in Greece in June.

Claudia R. Baquet, MD, MPH, associate dean for policy & planning and professor in the department of medicine, was invited by the National Institutes of Health (NIH) to present her research during the NIH's Wednesday Afternoon Lecture Series (WALS).

which is organized by the NIH Office of the Director. The WALS is the NIH's most visible and prestigious lecture series; nomination and selection of the lecturers is extremely competitive. Baquet presented her lecture on November 14, 2007. Each lecture is broadcast live on the internet, and is made available for download afterward at <http://videocast.nih.gov/>.

Stephen T. Bartlett, MD Barbara Baur Dunlap Professor and Chair in the depart-



Stephen T. Bartlett, MD

ment of surgery, was invited to the Royal Society of Medicine (RSM) in London, England, in June 2007 to speak at one of their specialty section meetings. His presentation was entitled "The Transplantation of the Highly Sensitized Patient." Bartlett's invitation to speak was based not only on his superior professional knowledge but also because he is recommended as one of the best speakers in the United States regarding transplantation.

The RSM is an independent, apolitical organization founded 200 years ago. It is one of the largest providers of continuing medical education in the United Kingdom. The society provides accredited courses for continuing professional development which is so vital in allowing doctors, dentists, veterinary surgeons and other healthcare professionals their continuing freedom to practice. The aim is to provide a broad range of educational activities and opportunities for doctors, dentists and veterinary surgeons, including students of these disciplines, and for allied healthcare professionals. The RSM promotes an exchange of information and ideas on the science, practice and organization of medicine, both within the health professions and with responsible and informed public opinion.

Maureen Black, PhD, John A.

Scholl Professor in the department of pediatrics, was invited to address the delegation from The Knesset, the legislature of Israel. Her presentation, "Food Security: Links to Child Health and Development" was presented in Washington, DC, on September 6, 2007. Additionally, Black was invited to give the inaugural address and serve as a visiting professor at the University of North Carolina's Mead Johnson Center for Excellence in Pediat-



Maureen Black, PhD

ric Nutrition Seminar Series in September. She presented "Healthy Beginnings: Overweight Prevention for Infants and Toddlers."

Claire M. Fraser-Liggett, PhD, professor in the department of medicine and director of the institute for genome sciences, delivered the commencement address for the 2007 graduating class of Johns Hopkins University's Zanvyl Krieger School of Arts and Sciences.



Claire M. Fraser-Liggett, PhD

Stephen G. Reich, MD professor, and **Paul S. Fishman, MD, PhD** professor, both from the department of neurology, represented the medical school at the American Academy of Neurology 59th Annual Meeting in Boston in May. Reich presented two seminars entitled "The Top Ten Pitfalls in the Diagnosis of Parkinson's Disease" and "Clinical Pearls in Bedside Neurology," while Fishman presented a seminar entitled "Developing Neuroprotective Therapies."

Mary Rodgers, PT, PhD George R. Hepburn Dynasplint Professor and chair in the department of physical therapy & rehabilitation science, presented a keynote talk entitled "Rehabilitation Biomechanics in Wheelchair Propulsion and Hemiparetic Gait" at the International Society of Biomechanics XX1st Congress in Taipei, Taiwan, in July.

Bill Romani, PT, PhD associate professor in the department of physical therapy & rehabilitation science, presented "Gender Differences in Type 1 and Type 3 Collagen mRNA Expression in the Rat Anterior Cruciate Ligament" at the World Confederation of Physical Therapy Congress in Vancouver, British Columbia, in June.

Jordan E. Warnick, PhD assistant dean for student education & research and professor, department of pharmacology & experimental therapeutics, co-chaired a symposium entitled "Integrated Strategies in Pharmacology Education: Simulation, Case- & Team-Based Approaches" at the annual meeting of

faculty



Jordan E. Warnick, PhD

the Federation of American Societies for Experimental Biology/American Society for Pharmacology and Experimental Therapeutics (ASPET) in Washington, DC, in April. His talk was entitled "Lecture-based Approach to

Pulmonary Pharmacology." Warnick is the chair of the division of pharmacology education for ASPET.



Laure Aurelian, PhD, professor in the department of pharmacology & experimental therapeutics, was awarded a five-year \$1,856,249 grant from the National Institutes of Health for her work entitled "Apoptosis of Skin Melanoma by the New HSP H11."

This research will elucidate a novel paradigm for HSP, or heat shock protein, function in cancer cell fate determination, develop a much-needed novel chemogene therapy for melanoma and identify targets for future H11-based

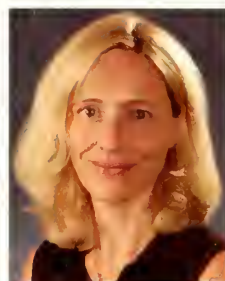


Laure Aurelian, PhD

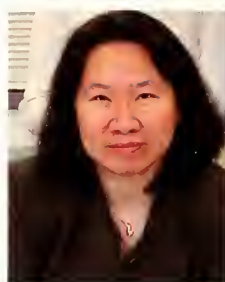
therapies. Aurelian's laboratory's newly cloned novel heat shock protein, H11, is a promising target for chemogene therapy.

Robert J. Bloch, PhD, professor in the department of physiology, received a five-year \$1,233,755 competing renewal for his Ruth L. Kirschstein National Research Service Award for pre-doctoral fellowships training grant from the National Institutes of Health entitled "Training Program in Integrative Membrane Biology."

Angelika Burger, PhD, associate professor in the department of pharmacology & experimental therapeutics and program in oncology, received a five-year \$1,028,076 R01 grant from the National Cancer Institute for her work entitled "The BCA2 Ubiquitin E3 Ligase as a Target in Breast Cancer."



Angelika Burger, PhD



Y. Christy Chang, PhD

Y. Christy Chang, PhD, assistant professor in the department of medicine, received a four-year \$1,494,000 R01 research grant from the National Heart, Lung and Blood Institute for her work entitled

"Genetic & Functional Analyses of Chromosome 1 Hypertension Susceptibility Genes."

Patricia C. Dischinger, PhD, professor in the department of epidemiology & preventive medicine, and **Jon Mark Hirshon, MD, MPH**, associate professor in the department of emergency medicine, have been awarded a 5-year \$1,137,951 T-32 Fellowship Training Grant on injury control and trauma response from the National Institute of General Medical Science. This prestigious award will be used to train post-doctoral fellows in research related to injuries. It is one of only a small number of T-32 training grants at the university.

Susan Fried, PhD, professor in the department of medicine, received a four-year \$1,177,000 competing renewal R01 research grant from the National Institute of Diabetes and Digestive and Kidney Diseases entitled "Nutritional Regulation of Leptin Production."

Stephen B. Liggett, MD, professor in the departments of medicine and physiology, received a five-year \$1,875,000 National Institutes of Health Method to Extend Research in

Time R01 grant from the National Heart Lung and Blood Institute entitled "Molecular Properties of B-adrenergic Receptors in Asthma."

Stuart S. Martin, PhD, assistant professor in the department of physiology and program in oncology, received a five-year \$1,410,750 R01 National Cancer Institute grant for his work entitled "Stabilized Microtubule Protrusions in Detached Mammary Epithelial Cells." Additionally, Martin received a three-year \$445,500 Department of Defense Idea Award entitled "Targeting Detyrosinated Microtubule Protrusions to Reduce Breast Cancer Metastasis."

Braxton Mitchell, PhD, professor in the department of medicine, received a four-year \$2,807,763 R01 grant from the National Heart, Lung and Blood Institute for his work entitled "Genetic Influences on Coronary Artery Calcification."



Braxton Mitchell, PhD

James Nataro, '87, MD, PhD

professor in the department of pediatrics and center for vaccine development, has

received a three-year \$5,621,367 grant from the Bill and Melinda Gates Foundation for a new project entitled "New Technologies in Diagnosis of Enteric Disease." The overall goal of the project is to adapt novel molecular



James Nataro, '87, MD, PhD

methods for comprehensive diagnosis of enteric disease in developing countries. The project will evaluate three new technologies that promise rapid, agile detection of enteric pathogens, which will greatly facilitate long term strategies to control child mortality.

Martin Schneider, PhD, professor in the department of biochemistry & molecular



Martin Schneider, PhD

biology, has been awarded a five-year \$1.48 million renewal of a research grant from the National Institutes of Arthritis, Musculoskeletal and Skin Diseases to study the "Control of Calcium Release in Skeletal Muscle."

In addition, the grant has been awarded a two-year \$175,000 Minority Supplement to support **Rotimi Olojo, PhD**, who has joined Schneider's lab group as a postdoctoral fellow to work on this project. These studies will provide new information regarding the initiation and control of release of calcium ions into the myoplasm of skeletal muscle fibers, which triggers the chain of events leading to muscle contraction and the subsequent reversal of the process, leading to muscle relaxation in both normal and diseased muscle.

Geoffrey Schoenbaum, PhD, assistant professor in the department of anatomy & neurobiology, received a five-year \$1,104,468 grant from the National Institute of Aging for his work entitled "Flexibility, Prefrontal Function, and Normal Aging."

The goal of this project is to identify neural correlates of aging-related declines in reversal-learning and set-shifting in orbitofrontal and medial prefrontal cortex and ask whether it might be possible to prevent or reverse these effects with practice that engages these areas.



Geoffrey Schoenbaum, PhD

Michael T. Shipley, PhD, Donald E. Wilson Distinguished Professor and chair in the department of anatomy & neurobiology,

and director of the program in neuroscience, received a five-year \$1,875,000 grant entitled "Olfactory Glomeruli Cellular and Network Mechanisms" from the National Institute on Deafness and Other Communication Disorders.



Michael T. Shipley, PhD

Soren Snitker, PhD, assistant professor in the department of medicine, received a five-year \$2,554,082 R01 grant from the National Institute of Diabetes and Digestive and Kidney Diseases for his work entitled "Pharmacogenomics of Thiazolidinedione Response."

*Grants and contracts of \$1 million and above



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The Department of Physical Therapy & Rehabilitation Science

In September 1956, with just four students and a handful of faculty members, the University of Maryland School of Medicine founded the department of physical therapy on its campus in downtown Baltimore.

Now, more than 50 years and two thousand graduates later, the department has grown to include 19 full-time faculty members and 30 plus adjunct faculty and has expanded to three degree programs—the entry-level doctor of physical therapy, the doctor of science in physical therapy and a PhD in physical rehabilitation science.

In 2003, under the leadership of **Mary Rodgers, PT, PhD**, George R. Hepburn Dynaspilnt Professor and Chair, the department incorporated “rehabilitation science” into its name to reflect the emphasis on providing evidence for physical therapy practice through research. Professors in the department are conducting a number of rehabilitation research projects on an ongoing basis. One of these projects has led to a patented device for use in stroke rehabilitation entitled BATRAC, designed and created by Drs. Sandy McCombe-Waller and Jill Whitall.

Stroke is the nation’s third leading cause of death behind diseases of the heart and cancer. About 700,000 Americans each year suffer a new or recurrent stroke. More than half a million of them are left with paralysis. Inactivity can worsen conditions and potentially lead to other strokes.

“We began exploring other methods for stroke rehabilitation more than 10 years ago when we weren’t satisfied with results from typical training,” says **Sandy McCombe-Waller, PT, PhD, NCS**, assistant professor and an expert in the area of neuromotor control. “In rehabilitation after stroke, there was very little focus on training the upper extremity with enough repetition to make any impact on function. We decided to apply the use of auditory cueing as well as repetitive practice of the arms bilaterally (based on principles of motor learning and motor control) to see if we could make a difference in function.”

In collaboration with her colleague **Jill Whitall, PhD**, they designed a training device to study the innovative combination of bilateral and unilateral training to improve arm and hand function in patients with moderate severity paresis after brain injury. Their

research quickly led to published articles in journals and NIH funding. Whitall is a professor and co-director of research for the department, and co-director of the neuromotor core within the Baltimore Claude Pepper Independence for Older Americans Center funded by the National Institute on Aging.

“We created a rehabilitation training device out of scientific principles. Our goal has been and is to seek the underlying mechanisms in neural recovery, not just functional outcomes,” she says in explaining that this is not just another piece of exercise equipment. In fact, the university has licensed their invention in hopes that it will be developed for utilization in the home and community.

As the two move forward in their research, they continue to work collaboratively with the VA Medical Center, other departments within the medical school and always involve the students. They hope that their work with BATRAC (Bilateral Arm Training with Rhythmic Auditory Cueing) and other innovative methods of rehabilitation will provide treatment options for patients with more severe debilitation as a result of stroke.

Whitall concludes by saying, “Physical therapists are more than clinicians, and physical therapy is more than exercise—it is rehabilitation with a rationale. There is an emphasis on science.”

The department of physical therapy and rehabilitation science mission is to advance and advocate societal health by optimizing human performance and wellness through education, research and service. Graduates have gone on to become higher educators, researchers, licensed physical therapists and entrepreneurs. The department is ranked 16th out of 203 physical therapy programs in the nation by *US News and World Report*.



Bilateral Arm Training with Rhythmic Auditory Cueing



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advancement

Campaign Meets \$200 Million Goal Two Years Ahead of Schedule

In July 2002, the medical school embarked upon an ambitious, seven-year campaign seeking to raise \$200 million in recognition of its bicentennial anniversary and to propel the institution into its third century. Under the leadership of SOM dean **Donald E. Wilson, MD, MACP**, the campaign got off to a strong start, reaching 72 percent of goal by the campaign's midpoint. Upon the arrival of Dean **E. Albert Reece, MD, PhD, MBA** in September 2006, he challenged the institution to aggressively work to achieve the \$200 million dollar goal during the 2007 bicentennial celebration.

"Alumni and friends have always supported this institution in wonderful ways. But in order to successfully achieve our campaign goal, the medi-

cal school needed to secure unprecedented levels of private support," says **Patrick Madden**, the school's associate dean for development. "Once again, alumni, friends, faculty and staff members and the corporate community carried the day. Without their continued outstanding generosity, we would not be celebrating this milestone."

Under Reece's charge and with the support of the entire medical school community, the campaign thrived. This past summer, nearly two years ahead of schedule, the school met—and surpassed—its \$200 million goal. The endowment has doubled, from \$82.6 million to \$165.6 million, and 17 new chairs and professorships have been established. During the past year, individuals, corporations and founda-

tions contributed a record-breaking \$46 million in private support. Contributions from alumni and friends comprised an astounding 83 percent of the 7,100 gifts received.

"Our medical school has achieved great things in the last two centuries, and our future is bright," says Reece. "Our bicentennial celebration has afforded us an opportunity to reach out to an even wider national constituency. It has been an extraordinary time to join this institution." As we evaluate our path for the future, we need to recognize that philanthropy will play a critical role in our success. With the continued outstanding generosity of our donors, the school will achieve new levels of excellence and expand our impact locally, nationally, and globally," he adds.

Endowed Chairs & Professorships Established During the Bicentennial Campaign

Barbara Baur Dunlap Professorship in Transplantation in the Department of Surgery

Anonymous Professorship in Orthopaedic Trauma

George R. Hepburn Dynasplint Professorship in Physical Therapy & Rehabilitation Science

Homer & Martha Gudelsky Family Foundation Professorship in Medicine

Dr. Sylvan and May Frieman Professorship in Reproductive Endocrinology

Carl M. Mansfield, MD Endowed Professorship in Radiation Oncology

Marlene and Stewart Greenebaum Professorship in Radiation Oncology

Donald E. Wilson, MD, MACP Distinguished Professorship

Melvin Sharoky, MD Endowed Professorship

William E. Brown Endowed Professorship

David S. and Sara Brown Endowed Professorship

Eugenia Brin Endowed Professorship

Peter Angelos Distinguished Professorship in Surgery

John L. Whitehurst Endowed Professorship

Matjasko Professorship for Education in Anesthesiology

Matjasko Professorship for Research in Anesthesiology

John F. B. Weaver Professorship

advancement

Carski Names Physiology Laboratory

A central laboratory in the department of physiology has been named in honor of the parents of **Theodore R. Carski, '56**. A recent gift from the Carski Family Foundation is providing research support to the department, and chair **Meredith Bond, PhD**, decided to recognize their generosity with the naming opportunity. A brief ceremony was held on September 20, 2007 in the department offices located on the fifth floor of Howard Hall. Speakers included Bond, SOM dean **E. Albert Reece, MD, PhD, MBA**, and assistant professor **Thomas A. Blanpied, PhD**, and the program included the unveiling of a plaque



Jason Brill, '10 was one of 150 student callers for this year's phonothon in Davidge Hall

early 19th century, they have been gathering in Davidge Hall for a phonothon since 1978. This year's drive, consisting of more than 130 alumni and student volunteers, generated more than \$155,000 during seven nights of calling. As of October 3—the final night of calling—gifts (already received) and pledges totaled \$493,000. The inaugural event in 1978 helped raise \$91,264 in annual fund gifts; officials expect to receive more than \$700,000 this year. If we missed you during the fall event, gifts to the FY08 annual fund can be made through June 30.

Kerns Receives Nataro Scholarship


Patrick Kerns is recipient of the 2007–08 Nataro Family Scholarship. The annual award is presented to a



Former Nataro Scholarship recipient Shayna Rich, with this year's honoree Patrick Kerns, James Nataro, '87, and another former recipient Shannon Dean

first-year MD/PhD student as a lasting memorial to **Joseph Nataro, '25**, who immigrated to America from Italy in a cattle boat during the early part of the 20th century. Following Joseph at Maryland were sons **Jerome, '46, Frank, '55, and Joseph, '59**, and later grandson **James, '87**, who earned an MD/PhD from Maryland and is professor of pediatrics and head of the division of infectious diseases and tropical pediatrics.

Chai is Inaugural Young Professor

Toby C. Chai, MD, a professor of surgery who has served on the faculty since 1997, was named the inaugural Dr. John D. Young Jr., Professor in Urology. The endowed title was created by family, colleagues, alumni, and friends of the late **John D. Young, '41**, a member of Maryland's faculty for more than three decades who passed away in 1995. Members from both the Young and Chai families joined faculty, alumni, and staff for an investiture ceremony on October 16. Chai has an impressive track record for research, clinical work, and teaching at Maryland. 



Toby C. Chai, MD, receives his professorship medalion from surgery chair Stephen T. Bartlett, MD



SOM dean E. Albert Reece, MD, PhD, MBA, Trudi Carski, Tom Carski, Thomas A. Blanpied, PhD, Meredith Bond, PhD, and Theodore R. Carski, '56

honoring Katherine D. and Theodore J. Carski. Attendees included Carski's wife Trudi, their two children, as well as brother Tom.

30th Annual Phonothon Nets \$155k

The FY08 phonothon celebrated its 30th anniversary in fall. Although alumni have been fund raising on behalf of the medical school since the

Battling the Silent Killer

ALUMNUS

PROFILE:

Elijah Saunders, '60



Saunders in the
1960 Terra Mariae
Medicus



ELIJAH SAUNDERS, '60, is at war. He wages it in churches, barber shops, hospitals and boardrooms. Any place, any time, he is relentless in his fight.

For nearly 40 years, Saunders has battled a condition that kills more African Americans than whites. Some victims don't even know they are sick until it is too late. He battles hypertension, the "silent killer." It affects roughly 38 percent of the black population compared with 29 percent of whites. Every hour, Saunders says, an African American dies from high blood pressure. "We don't like what we see so far. The gap isn't closing as much," Saunders says. "Blacks go out earlier with a number of problems, but we think this is the major contributor."

Saunders, a cardiologist, is professor of medicine and head of Maryland's hypertension section. Over the years, he has built one of the country's premiere hypertension programs. Although he is 72, and by all standards should be hitting golf balls or practicing his violin, Saunders continues to work to make sure the war against hypertension is being waged.

He is a member of more than a dozen organizations, including the International Society for Hypertension in Blacks, which he helped form, and a charter member of the Association of Black Cardiologists and the American Society of Hypertension. He lectures frequently, travels throughout the world, and manages to see patients three days a week.

"With his books and scholarly papers he has been a one-man army trumpeting blood pressure control," says B. Wayne Kong, PhD, JD, chief executive of the Association of Black Cardiologists in Atlanta, who worked closely with Saunders in the 1970s on groundbreaking studies on health in the African-American community. "He certainly has made a tremendous impact. He has contributed a great deal to the control of this terrible problem in this community."

In Saunders' eyes, there is still much work to be done to keep hypertension and its deadly impact at the forefront of America's conscience. "I want people to remember that a very bad and important problem has not had enough attention, and the kind of attention I have been giving it for the past 35 or 40 years needs to be given by more people, and it needs to be done indefinitely," Saunders says.

This has meant taking the fight to the streets. Saunders launched a program this year to train barbers and beauticians in Baltimore to take

customers' blood pressure measurements. The program is sponsored by CareFirst BlueCross BlueShield. "It has been doing very well," he says.

"Some customers have been sent directly to the emergency room because their blood pressure was so high they needed immediate medical attention," Saunders says. "You have to put a hard sell on them to get them to go," he says. "We have picked up a number of people and BlueCross BlueShield is very, very pleased." So pleased that Saunders' funding grant has been extended.

Saunders became curious about hypertension several years after he graduated from medical school. He completed his internship, residency, and fellowship at Maryland, and opened a private practice in west Baltimore in 1965, becoming the first black cardiologist in Maryland. Most often he practiced at Provident Hospital, established in 1904 for blacks. "I was very, very busy," he says. "I began to realize that in my first several years of practice that black patients with heart disease always had hypertension. In some cases hypertension had nothing to do with their heart disease."

He conducted a literature search to study the condition and found a report that concluded that blacks had more frequent and severe cases of hypertension than whites. Despite a booming practice, Saunders thought he could do more to fight hypertension and raise awareness if he left private practice and became a faculty member at the medical school. In 1984, he was offered a position at Maryland and took it. Then, he launched his campaign against hypertension hoping to make an impact.

He raised awareness of the problem through organizations such as the American Heart Association, the largest organization in the world focused on heart disease, and the International Society for Hypertension in Blacks, which he helped form.

He was outspoken and quoted in the *New York Times*, *Washington Post*, *Baltimore Sun* and *Associated Press*. He wanted to know why blacks suffered higher incidents of hypertension. Was racism a factor? Diet? Heritage? Stress? Poverty? Access to care? Sodium?

In 1985, Saunders and Kong launched the first program in the country using barbers to take blood pressure measurements of customers. Initially, they began working with churches, but they weren't reaching the number of African-American men they thought they should. Kong suggested heading to barber shops, a place African-American men frequented to catch up with friends and get their hair cut. The first barber

shop program in the country was a success and adopted worldwide. But the initial program in Baltimore ran out of funding, according to Saunders.

Sometimes his efforts took him far afield. Saunders traveled to Birmingham, England, in 1996 to study Jamaican residents. His mission: to determine if Jamaicans in England, like African Americans, suffered from the same increased rate of hypertension. "I had this whole church of a few hundred people at my finger tips," Saunders recalls. He concluded that Jamaicans, like African Americans, were salt sensitive, and suffered from hypertension despite living in different parts of the world.

Saunders believes he and others have made a "dent" in raising the awareness of the dangers of hypertension. "The awareness of hypertension as a silent killer definitely has increased, especially in the black community," he says.

What's more, the organizations he has helped start have kept the problem at the forefront of the medical community. "We are keeping the medical community honest," Saunders says. "We make them recognize that there is this black problem that represents a tremendous disparity between blacks and whites."

Like many of his patients, Saunders has high blood pressure, takes medication and is on a low sodium diet. But he exercises and enjoys playing golf. Married with

“Saunders believes he and others have made a ‘dent’ in raising the awareness of the dangers of hypertension. ‘The awareness of hypertension as a silent killer definitely has increased, especially in the black community,’ he says.”

three grown children, Saunders hasn't yet decided when he will retire and have more time for his violin. The job keeps him busy especially since he is working to raise \$2 million to ensure the long-term stability of his hypertension program he started more than 20 years ago. Also underway is an effort to establish an endowed faculty position in his name at the medical school.

In the meantime, Saunders' battle against hypertension continues. "It needs to be on the front burner," he says. 🏠

student activities

White Coat Ceremony & Medical Family Day

[By Caelie Haines]

The third annual Medical Family Day on November 1, 2007, welcomed the families of first-year students to the medical school. This special event also gave family members a glimpse into what medical school is really

medical students in a variety of ways, from helping them pay for research trips and conferences, to creating a student lounge on campus where they can gather in comfort. To inspire families to give, Friedman and her husband David Blanken presented

of the medical profession. They also added their signatures to the school's honor book, a leather-bound volume signed by all med students in their first year and their final year, in which they pledge to maintain integrity throughout their years in medicine.



The Class of 2011

like for their loved one. Answering questions about the school and careers in medicine was a panel comprised of fourth-year medical student **Yvonne Pierpont**; **Gina Perez-Madrinan, MD**, an assistant professor in the department of psychiatry; **Joseph Martinez, '98**, assistant dean for student affairs and an assistant professor in the department of emergency medicine; and Barbara Friedman, mother of a fourth-year med student and co-chair of the Medical Family Annual Fund.

Friedman encouraged families to support the fund, which is used to enhance the academic experiences of

Dean **E. Albert Reece, MD, PhD, MBA** with a \$10,000 check for the fund.

Following medical family day activities was the event first-year students had long been waiting for—the white coat ceremony. This tradition, which started in 1997, involves the presentation of traditional white coats, long the symbol of physicians and scientists, to students. The coats are put on the students by faculty to welcome their new colleagues to the profession of medicine. After being “coated,” students recited an oath acknowledging their acceptance of the obligations

Serving the Homeless on Thanksgiving

[By Ed Fishel]

It's a Thanksgiving tradition that began nearly two decades ago. Each year, medical students organize Project Feast to feed hundreds of Baltimore's homeless and needy families on Thanksgiving. The event draws volunteers from all of the schools on campus, as well as volunteers from the community, many of whom return every year.

Workers began gathering at 5:30 a.m. at Booker T. Washington Middle



Volunteers on the serving line

School to prepare for the feast, which was served in the cafeteria beginning at 11 a.m. Their day would not be finished until 7 p.m. By the time the doors opened this year, the line had stretched around the school. Several hundred people were fed over the course of the day.

"We are all thankful for the many blessings in our lives. Project Feast is a great opportunity to give thanks together, as a community, building strength and tradition in West Baltimore," said Sarah Bui, '10, and Jennie Hart, '10, organizers of this year's Project Feast.

In addition to the meal, students collected clothing, toiletries and non-perishable goods to be distributed in the auditorium at the school. The event is supported by the Medical Alumni Association.

Phonothon Volunteers Treated to Reception

More than 100 students who volunteered during the phonothon last fall were invited to a reception on November 28. The appreciation event, sponsored by the Medical Alumni

Association, was held at Maggie Moore's Irish Pub located just two blocks from campus. Thanks to our students, more than \$155,000 was raised during seven nights of calling. 🏠



First-year students Meg Palisoul, Elizabeth Le, Brian Shiu, Jamie Goldberg, Charlie Rutter, and Julien Dagenais

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175 Years Ago



In 1833, Maryland established a course in preventive medicine, the first in America. The course was conceived and taught by **Robley Dunglison, MD**, professor of materia medica and therapeutics, hygiene and medical jurisprudence who served as dean from 1834 to 1836.

100 Years Ago

In 1908, the medical school's library relocated to an old church building on the southeast corner of Lombard and Greene streets. The building was given the name **Davidge Hall**, in honor of one of the school's founders and first dean, **John Beale Davidge, MD**. The title would be transferred to the old medical building after the library's demolition in 1958.



50 Years Ago

In 1958, **F. Mason Sones Jr., '43D**, discovered that arteries of the heart could be invaded safely with catheter and dyes in order to photograph their configuration. His technique, cine coronary angiography, became the gold standard for pinpointing coronary artery disease. From 1950 until his death in 1985, Sones was affiliated with the Cleveland Clinic Foundation.

recollections

A look back at America's fifth oldest medical school and its illustrious alumni

1930s **1936:** Milton H. Stapen of Floral Park, N.Y., recently turned 95. A radiologist, Stapen was a founder of Hempstead General Hospital Medical Center in 1957 and served as its president for 42 years. In 1968, he founded the Federation of American Hospitals which is now known as the Federation of American Health Systems. He has been the recipient of numerous awards and, in 1970, helped found and fund the Stapen Infirmary at Hofstra University. Stapen and wife Lois have two sons including **Joseph, '67** **1938:** Joseph M. George Jr., of Las Vegas reports that he is doing well.

1940s **1944:** Sara Taylor Morrow of Raleigh, N.C., is enjoying travel and spending quality time with her six children, their spouses, and 13 grandchildren since retiring as medical director for Electronic Data Systems in 2005. **1945:** Robert F. Byrne of Wichita, Kans., is in good health and continues to attend post-graduate meetings and symposia since retirement in 2002. **Stanley R. Steinbach** of Baltimore proudly reports that he is great grandfather to a one and a half year-old boy and pre-med student! **1946:** John R. Gamble Jr., of Lincoln, N.C. sadly reports that wife Betty died last year. He continues to farm and fish. **1947:** George W. Fisher of Ukiah, Calif., is well. **Jose G. Valderas** of Keller, Tex., continues participating in various medical missions. He and wife Bobbie have children living in Maryland, Virginia, North Carolina, and Texas. **1949:** George W. Knabe of Virginia, Minn., received a lifetime achievement award from the College of American Pathologists.

1950s **1950:** Frank T. Kasik Jr., of Baltimore is living in Oak Crest Village, a retirement community, since 1996. He retired from practice in 1992. Kasik has five children, 14 grandchildren, and nine great-grandchildren. Wife Mary passed away in 1997. **1951:** Solomon Cohen of Sebastopol, Calif., continues growing Savignon Blanc grapes in his small vineyard. **1952:** Lawrence D. Egbert of Baltimore served as a guide for the Doc-

tors Without Borders outdoor educational exhibit entitled *A Refugee Camp in the Heart of the City*, as it toured the cities of Houston and Dallas in October. **1953:** Joseph R. Bove of Hamden, Ct., sadly reports that wife Nancy died in August 2007 of carcinoma of the colon. **1954:** William F. Doran of Conneaut, Ohio, reports that all of his children are finished with school and doing well. **James H. Teeter** of Waynesboro, Pa., reports that grandson Mark, age 13, is interested in medicine and would like to attend Maryland when the time comes. **1957:** Joseph O. Dean Jr., of Rhineland, Wis., enjoys teaching in an elder hostel program and assisting the elderly with tax returns through the AARP. **1958:** Harvey L. Friedlander and wife Lynn of Calabasas, Calif., are soon taking their 34th and 35th cruises as well as a land tour of India. **Albert F. Heck** of Owings Mills, Md., continues to serve on the governor's council on heart disease and stroke prevention. **Antonio Perez-Santiago** is enjoying life in Orlando, Fla., and is thankful for his six grandchildren.

1960s **1960:** James A Yates of Lemoyne, Pa., received the Pennsylvania Medical Society 2007 Community Service Award. He continues practicing plastic surgery but has been involved in local government including president of his local council and police commissioner since 1995. **1961:** George Bandy of Paradise Valley, Ariz., and wife Shirley are celebrating 52 years of marital bliss as Bandy marks his second year of retirement. They enjoy travel, golf, and skiing with winters in Scottsdale and summers in Flagstaff. They have three children and six grandchildren. **Ronald L. Krome** of Naples, Fla., recently published *The Floaters Log*. He is retired, having served as president of the American College of Emergency Physicians, the American Board of Emergency Medicine, and the Society of Teachers of Emergency Medicine. Krome is a retired professor emeritus of emergency medicine at Wayne State University and editor emeritus of the *Annals of Emergency Medicine*. **1962:** Robert A. McCormick of Santa Fe, N.M., continues at his family practice

with wife Martha managing the business. They were sorry to miss the 45th Reunion last spring. **1963:** D. Robert Hess Jr., of Chambersburg, Pa. has reduced his office hours to 2 1/2 days each week and has retired from hospital and nursing home work. He is spending free time volunteering, gardening, writing, and traveling. Hess and wife Marjorie recently had their first great-granddaughter in addition to their 52 delightful grandchildren. **Edward C. Werner** and wife Georgia of Washington, D.C., are cruising the Caribbean this winter with classmate **Chris Tountas** and his wife Rose. They are looking forward to their 45th Reunion this spring. **1965:** Barbara J. Bourland is enjoying retirement from her pediatric cardiology practice and NICU directorship in Lafayette, Ind. She and husband Joe split their time between Lafayette and Houston where their children and grandchildren live. **Ann Robinson Wilke** of Advance, N.C., was in Baltimore during the month of October and enjoyed visits with former professors Y.C. Lee, MD, and **Robert Singleton, '53**, and also with **Bernie Karpers, '62** (and wife Kathleen), classmate **Ronald Goldner** (and wife Florene), and former roommate **Alice Heisler, '63** **1966:** William O. Harrison of Carson City, Nev., has retired for the third time and hopes this time it will stick! **Beresford M. Swan** and wife Lucille of Hamilton, Bermuda, are proud grandparents of Nathaniel David, born in May 2007. **1967:** Stuart H. Lessans of Rockville, Md., enjoys being a "mister mom" for his two six year-old twins Matthew & Faye. He believes they'll keep him young, and he's hoping they are future members of the class of 2026! **1968:** **Morton B. Blumberg** and wife Carol are splitting their residency between Snowmass Village, Colo., and Baltimore, as youngest daughter Ashley is a freshman at Washington University in St. Louis. **Barry A. Lazarus** of Silverthorne, Colo., participated in The Amazing Race, CBS's Emmy-winning reality show. His was the only over 50 team to win a leg in the show's 12 seasons. **Abraham A. Litt** of Newton Center Mass., reports that daughter Caryn is working for a law firm in New York City after graduating with honors from Fordham Law School.

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tion, following in the footsteps of wife Sue, the immediate past president. He also sits on the state council for the American College of Physicians. His son is a youth minister/audio engineer in Nashville, as well as a new parent. And since neither of his children has job benefits, Vegors plans to continue working as a geriatrician until dementia sets in. • **Michael E. Weinblatt** of Waban, Mass., is the John R. and Eileen K. Riedman Professor of Medicine at Harvard Medical School. He also serves as co-director of clinical rheumatology at the Brigham & Women's Hospital. **1976: Janet and Bill Brown** of Pasadena, Md., are proud grandparents of Adelia Ruth Stefanik, born May 3, 2006. **1977: Martin I. Herman** and wife Lynette of Cordova, Tenn., recently celebrated their 24th anniversary and are anticipating their first granddaughter soon. Herman enjoys spending more time with his family. **1978: Michael J. Ichniowski** of Lutherville, Md., is regional representative for central Maryland in the state chapter of the American Academy of Pediatrics. He enjoyed re-uniting with classmate **Stephen Valenti** to perform a couple of Rolling Stones songs during the medical school bicentennial gala last May. • **Harvey S. Mishner** of Bradenton, Fla., reports that his practice, Lakewood Ranch Primary Care, continues to grow. In fact, he's looking to hire another internist if anyone is willing to move to the Sarasota area. **1979: Max D. Koenigsberg** of Chicago, together with two fire departments, was involved in making the decision to halt the city's marathon last October due to heat. He is senior EMS medical director for the Windy City. • **H. Russell Wright** of Baltimore is president of the medical staff at St. Joseph's Medical Center and is speaker of the House of Delegates for Med Chi. Daughter Morgan recently graduated from Davidson College while son Alex was promoted to major in the U.S. Marine Corps.

1980s **1980: Catherine Crute** has a private family practice in Portland, Maine. **1982: Darryl B. Kurland** of Princeton, N.J., is doing oncology drug safety testing for Johnson & Johnson, helping define benefit-risk. Son Jason is a

second-year internal medicine resident in Providence, Rhode Island, and son Brian will graduate this spring from Northeastern University with a BA degree in music industry. • **Mary Beth Lindsay** continues her private obstetrics practice in Salisbury, Md. • **Harry S. Strothers** of Roswell, Ga., is professor of family & geriatric medicine at Morehouse School of Medicine and secretary-treasurer of the Society of Teachers of Family Medicine. **1983: Ali J. Afrookteh** of Frederick Md., plays sax/flute in a jazz quartet during his spare time and is frequently beaten in golf by his 10 year-old son. • **Scott D. Hagaman** of Columbia, Md., recently completed a term as president of Med Chi. • **Alfred D. Sparks** and wife Anne of Bel Air, Md., report that son Adam married Kira Quirk on November 1, 2006; daughter Bailey is in her final year of nursing school at Maryland; and daughter Megan works for Constellation Energy in Baltimore. **1984: Gregory Pokrywka** of Towson, Md., is a fellow of the American College of Physicians. An assistant professor of medicine at Johns Hopkins, Pokrywka is an inaugural diplomate of the American Board of Clinical Lipidology and a certified menopause practitioner by the North American Menopause Society. He has been in private practice since 1987 and in 2001 formed the Baltimore Lipid Center with the goal of aggressive detection and treatment of atherosclerotic cardiovascular disease. • **Robert M. Reveille** of Golden, Colo., was named one of Denver's top doctors in 5280 magazine. **1985: Mark A. Taylor** of Hollidaysburg, Pa., retired in 1997 due to Parkinson's Disease. **1986: Jeffrey Abrams** of Warrenton, Va., practices nephrology/internal medicine in Fauquier and Culpepper counties and serves as a director of electronic medical records. In his free time, Abrams performs in a local band and plays soccer. He and wife Jennifer have three sons. • **Ulia Ann Williams** of Sedona, Ariz., is co-founder of FETCH, a non-profit organization providing service animals to the elderly, disabled, and those in need. **1987: Anne C. Mazonson** of Potomac, Md., was diagnosed with ovarian cancer in June 2007 and is doing well after surgery and chemotherapy. She is on tem-

porary leave from her psychiatric practice and would love to hear from classmates

1988: Nancy Bunker and husband **Steven Goldstein**, '89, live in Watervliet, N.Y., with daughter Rebecca, age 16, and son Joseph, age 13. Bunker is a pediatrician who practices solo, while Goldstein is a general surgeon. • **Gail M. Royal** of Murrells Inlet, S.C., is a clinical media consultant for the American Academy of Ophthalmology. **1989: Elizabeth Lee Herrera** of Houston is editor and writer for *Anesthesiology Continuing Education*, a publication endorsed by the American Society of Anesthesiologists. She is staff anesthesiologist for the Debakey Heart Center at The Methodist Hospital. Her two daughters—Alexandra, age six, and Arielle, age four—attend Annunciation Orthodox School. • **John N. Unterborn** of Marblehead, Mass., a pulmonologist, is vice chairman for educational affairs and director of the internal medicine residency program at Caritas Saint Elizabeth's Medical Center in Boston.



John N. Unterborn '89

1990s **1990: Michael E. Rauser** is associate professor and residency program director, and vice chair of clinical affairs for the Loma Linda University Department of Ophthalmology. **1992: Joseph C. Hsu** of Germantown, Md., is partner at the pediatric practice of Takai, Hoover, Hsu & Associates and includes **Sandra R. Takai**, '80 and **Jayme Weiner**, '99. • **Claudia Montgomery-Hays** is assisting in the opening of a medical clinic in Guatemala over the next few years. She, husband Steve, and children ages nine and 12 live in Annapolis, Md., where Montgomery-Hays practices OB/GYN in a large group. She has participated in four triathlons over the past four years. **1996: Rebecca Appleton** and husband Andy Castillo, MD, have six children and recently gained custody of a nephew. They own three medical practices—family, travel medicine, and cosmetic laser.

Christian D. Bounds and wife Marybeth of Salisbury, Md., extend best wishes to the class of 1996. Bounds is enjoying his fifth year as an interventional cardiologist. The two enjoy spending time with daughters Catherine, age six, and Elizabeth, age four, and one year-old Garrett. **1997: George V. Antonopoulos** of Durham, Conn., has a private cardiology practice in Middlebury and is affiliated with Yale's internal medicine teaching program. ✦ **Ruwanthi S. Campano** of Lancaster, Calif., is planning to open a third office for her ENT/facial plastics practice. Husband Angelo is an attorney specializing in civil and criminal litigation. ✦ **David Heydrick** of Ellicott City, Md., recently produced a DVD entitled *The Parkinson's Pyramid*. ✦ **G. Anthony Reina** and wife Bryn of Stanwood, Wash., are proud to announce the birth of Peter August, who joins brother Zachary. ✦ **Matthew Zmurko** has relocated to Vermont Orthopaedic Clinic in Rutland, Vt. **1998: Melinda A. Mantello** and husband Robert C. Ezekiel of Rensselaer, N.Y., announce

the birth of Donata Elizabeth, their first, on March 26, 2007. Mantello practices pediatrics in Clifton Park. ✦ **Karen R. Raksis** and husband Rob of New York City celebrated the birth of Roscoe Raksis Grader, their first, on June 30, 2007. ✦ **Stasia S. Reynolds** of Baltimore is working part time with the hospitalist group at Johns Hopkins Bayview Medical Center and continues to enjoy her first job as the mother of three. ✦ **Rachel E. Schreiber** of Rockville, Md., and **Jamie Freistat, '97**, started Mommy Docs. The enterprise involves working via multiple media outlets to educate the public on pediatric issues. Schreiber reports that her practice and family are doing well. **1999: Lindiwe F. Greenwood** of Laurel, Md., operates a solo family practice entitled Renaissance Primary Care & Wellness Group. ✦ **James L. Medina** and wife Stacie live in Lancaster, Pa., with sons Christian and Adrian. Medina is a partner at Lancaster Emergency Associates and continues to work in the ED at Lancaster General Hospital.

2000s **2000: Morgan Bernius** of Perry Hall, Md., splits her time between pediatrics and adult emergency medicine at Franklin Square Hospital, following completion of an EMS fellowship. She also works with the Baltimore County Fire Department EMS System. ✦ **Katherine N. Wex** and husband Mark of Bryn Mawr, Pa., announce the birth of Hayden Colette, their third, on November 15, 2007. **2001: Allison Wentworth Brindle** and husband Jim of Cleveland Heights, Ohio welcomed Aidan Brindle, their first, in July 2007. ✦ **Carrie H. Dorsey** and husband Russell of Fallston, Md., announce the birth of Amanda Margaret, their first, on January 1, 2007. ✦ **Teresa I. Kulie** of Madison, Wis., is a faculty counselor for the AOA Honor Society at the University of Wisconsin School of Medicine and Public Health. ✦ **Jessica Lazarov** lives in Alexandria, Va., with husband Jeff and son Max. She works in the District of Columbia. ✦ **Igor M. Poltinnikov** of Murrysville, Pa., is an assistant clinical professor in radiation oncology at the University of Pittsburgh. He is married and has two children—two year-old Nicole and seven month-old Rachel. **2002: Scott M. Katzen** is in year two of a cardiology fellowship at Maryland. He and wife Jodi live in Columbia, Md., with son Jodi and their dog Bailey. ✦ **Brett Levinson** has joined Baltimore Eye Physicians in Towson where he specializes in corneal transplants, dry eye and hard-to-fit contact lenses. He and wife Sara live in Mount Washington. ✦ **Eugenia C. Robertson** and husband John of Glen Burnie, Md., announce the arrival of Lauren Olivia, their second daughter, on March 15, 2007. ✦ **Charles A. Sansur** is chief resident at the University of Virginia where he plans to do a complex spine fellowship next year. ✦ **Francis M. Segreti** and wife Eileen of Glen Mills, Pa., announce the birth of Alexandra Emmy on August 8, 2007. **2003: Thomas O'Hearn** was recently married and is serving a vitreo-retinal surgery fellowship at Doheny Eye Institute at the University of Southern California. ✦ **Richard A. Tempel** of Baltimore is with the Maryland Emergency Medical Network as emergency ultrasound coordinator at



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Upper Chesapeake Medical Center. **2004:** **Robin Veidt** of New York City is receiving fellowship training in oncology at Memorial Sloan-Kettering Cancer Center. She is engaged to be married in May. **2005:** **Marissa Perman** and **Ben Laskin** will wed on May 3 in Hilton Head, S.C. Perman is planning a dermatology residency at the University of Cincinnati, while Laskin is pursuing pediatric nephrology at Cincinnati Children's Hospital. **2006:** **Neda Homayounpour** and **Anis Frayha, '04** were married on September 22, 2007 at the Music Center at Strathmore in Bethesda, Md. Homayounpour is an internal medicine resident at Maryland where Frayha is training in radiology.

Faculty

Stephen C. Schimpff, MD, FACP, former CEO of the University of Maryland Medical Center and professor of medicine and public policy, published *The Future of Medicine*, by Thomas Nelson. The publication can be ordered at bookstores online. 





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Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Medicine Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

Jack H. Woodrow, '37
Palo Alto, Calif.
October 18, 2007

Dr. Woodrow interned at Yonkers General Hospital in New York, undertook a one year post-graduate course in otolaryngology at Washington University in St. Louis, and then received two years of residency training in EENT at Queens General Hospital in Jamaica. He practiced otolaryngology—head and neck surgery in Yonkers for 52 years before retiring in 1994. Woodrow served as a director of Empire Blue Cross and president of his Jewish Community Center. He later relocated to Palo Alto, Calif. Hobbies included playing violin and golf. Woodrow is survived by wife Grace, three children including **Kenneth, '68**, and four grandchildren.

Celeste L. Woodward, '38
Baltimore
November 1, 2007

Dr. Woodward was one of only four female students to graduate from Maryland in 1938. She received training at Baltimore City Hospitals and began her career working at St. Agnes Hospital and later with the Baltimore City Health Department as a quarantine officer. Woodward received additional training in dermatology, and for many years traveled with her husband, Theodore, to Pakistan, Cambodia, Vietnam, and Thailand, caring for people with conditions from leprosy to small pox on behalf of the American Medical Association and other agencies. She taught at the Fatima Jinnah Medical School in West Pakistan, did research tracking incidence of skin diseases for the National Institutes of Health, and tended the sick and ill-fated. During her work she often encountered life-threatening situations including gunfire, endured substandard living conditions, and contracted dengue fever. For more than 13 years she was an assistant professor and volunteer physician in the emergency room at Maryland. In 1999, Woodward received the Medical Alumni Association's Honor Award & Gold Key. She was a member of the John Beale Davidge Alliance, and in 1987 she and her husband presented

to the Medical Alumni Association the Davidge Mace which is now the visual focal point at all pre-commencement convocation exercises. In 2001 a professorship was established in her honor. She read extensively and enjoyed knitting. Her husband passed away in 2005, and she is survived by daughter **Celeste, '72**, two sons, nine grandchildren, and five great-grandchildren. Another son, Lewis, died in 1955.

Miguel S. Dalmau, '43M
Rio Piedras, P.R.
December 31, 2005

Francis L. Grumbine, '44
Adamstown, Md.
September 26, 2007

Dr. Grumbine was a member of a class that, due to World War II, completed medical school in three years. Upon graduation he joined the U.S. Army Medical Corps and was stationed in Guam. After being discharged at war's end with the rank of captain, Grumbine received training in obstetrics and gynecology at Bon Secours Hospital and established a private practice in Baltimore. He served on the staffs of Bon Secours, St. Agnes, Lutheran, and Maryland General hospitals. In 1962, Grumbine delivered 400 babies and then decided to add a physician to his practice, recruiting **Vernon M. Gelhaus, '55**. Grumbine had the pleasure of delivering one of his grandchildren. He retired in the late 1980s. Grumbine enjoyed playing poker, gardening, and was an Orioles and Colts fan. His first wife Emma died in 1984. He is survived by second wife Mildred, three daughters, one physician son, and five grandchildren.

Allan E. Trevaskis, '45
New London, N.H.
September 26, 2007

Training was interrupted for Dr. Trevaskis by World War II, as he interned at Allentown Hospital and then served for two years in the U.S. Army. Upon returning to civilian life, he received residency training at South Baltimore General Hospital and Allentown Hospital. His specialty was

plastic and reconstructive surgery which Trevaskis practiced until retirement in 1985. An appointment included vice president of the American Association of Surgery of the Hand. Trevaskis enjoyed golf, genealogy, and the science of DNA medicine. He is survived by wife Margaret, one son, one daughter, and two grandchildren.

F. Robert Haase, '47
Toms River, N.J.
October 7, 2007

Prior to medical school, Dr. Haase attended and graduated from Maryland's pharmacy school. Church Home & Hospital was the site of his internship and assistant residency in surgery from 1947 to 1949. He returned to Maryland for ENT training in 1950, spent the following year at the U.S. Naval Hospital in Bethesda, followed by one year at the University of Pennsylvania. His final year of training took him to the Jackson Clinic from 1954 to 1955. Haase spent the next five years as an instructor in otolaryngology at Maryland, followed by two years in this same capacity at the American Academy of otolaryngology and ophthalmology. Until retirement in 1986, he maintained a practice and from 1974 to 1975 was chief of staff at Jersey Shore Medical Center. In 1976, Haase served as president of the N.J. Academy of Otolaryngology and Ophthalmology. Haase enjoyed swimming, boating, sailing, and gardening. He and wife Elizabeth had three children.

O. Ralph Roth, '50
Ashland, Ky.
May 1, 2007

After graduation, Dr. Roth interned at Mercy Hospital and received residency training in radiology at Johns Hopkins. He was a fellow at Middlesex Hospital in London and received additional training in nuclear medicine at the Oak Ridge Associated University in Knoxville, Tenn. He was founder of the department of radiology & oncology at Presbyterian Hospital in Charlotte, N.C., where he worked from 1958 to 1962 and was an attending radiologist at King's Daughters Medical Center from 1962 to 1980. From 1981 to 1986, Roth served

as a radiologist at Our Lady of Bellefonte Hospital, and he was a member of the faculty at the School of Allied Health at Shawnee State University from 1986 to 1990. He received four clinical professor of the year awards from Marshall University School of Medicine where he served as professor of radiology from 1990 to 2001. For the past six years Roth served as a consultant and lecturer in radiology at Pikeville School of Osteopathic Medicine and in the department of radiology of the Veterans Administration medical Center in Huntington. He was a member of the Elm Society of the John Beale Davidge Alliance, Maryland's society for major donors. Roth enjoyed travel, and often traveled the globe to spend time with friends. He is survived by wife Virginia and was preceded in death by daughter Sheila.

James Wm Andrews, '52
Cooper City, Fla.
July 1, 2007

Eugene A. Mueller, '54
Salem, Ohio

Jack H. Mendelson, '55
Cambridge, Mass.
August 15, 2007

Upon graduation, Dr. Mendelson interned in medicine at the Boston City Hospital and completed residency training in psychiatry at Massachusetts General Hospital. In 1970 he became professor of psychiatry at the Harvard Medical School and chief of the department of psychiatry at the Boston City Hospital. Mendelson was consultant to the special action office on drug abuse prevention of the executive office of the U.S. President. In 1973, Mendelson and his surviving wife Nancy K. Mello, PhD, established the alcohol and drug abuse research center at the McLean Hospital in Belmont, Mass. His research was dedicated to studying the behavioral and biological aspects of alcoholism and drug abuse. As chief of the National Center for Prevention and Control of Alcoholism of the National Institute of Mental Health from 1966 to 1970, he promoted the concept that alcoholism is a medical disorder and developed

a multidisciplinary intramural research program. He published more than 480 scientific papers and books. Mendelson was an accomplished photographer, collector of antique maps and fine wines, and traveler who enjoyed gardening and cooking.

M. Larrie Blue, '56
Baltimore
September 17, 2007

Dr. Blue received residency training in pediatrics at Baltimore's Sinai Hospital, serving as chief resident from 1959 to 1960. A pediatric cardiology fellowship followed at the University of Colorado Medical Center in Denver. Blue then served in the U.S. Navy, heading the division of pediatrics at the Newport Naval Hospital in Rhode Island. He returned to Baltimore in 1960 and became a partner in Valley Pediatrics Associates, maintaining an office at the Valley Center in McDonogh Village and later at the Festival at Woodholme. Blue was an attending physician at Sinai and an instructor at Johns Hopkins. From 1964 to 1971, he was chief of the medical staff at the Happy Hills Convalescent Home for Children. He retired in 2003. Blue enjoyed travel, theater, and the Baltimore Symphony Orchestra. He is survived by wife Sima, two sons, one daughter, two grandchildren, two stepsons, a stepdaughter, and five step-grandchildren. His marriage to Barbara Miller ended in divorce.

James Edward Arnold, '66
Saratoga, Calif.
November 3, 2007

Upon graduation, Dr. Arnold completed residency training in dermatology at Stanford University before operating a dermatology and hair transplant practice in San Jose. He developed the Minde Knife and numerous surgical instruments for use in hair surgery, and his instructional tapes were used by surgeons in training and by technicians working for practitioners. Arnold was active in the International Society of Hair Restoration Surgery, received its golden follicle award in 1996, served as its program chair in 1999, and was on the society's board of directors. In 2004, he received its Manfred Lucas Award for Lifetime Achievement in

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Hair Surgery. He sold his practices in 1999 and spent the next several years camping, rafting, motorcycling, and spending time with family and friends. Arnold was president of the Pescadero Community Church, was active in community activities, and enjoyed drumming, collecting wild mushrooms, and writing poetry in his self-made cabin. He was preceded in death by first wife Margaret and is survived by wife Betty, two sons, and one grandchild.

Lance D. Potocki, '81
Washington, D.C.
August 31, 2007

Dr. Potocki is survived by three daughters and one son.

Gerard J. Barcak, PhD, MS
Baltimore
September 22, 2007

Dr. Barcak began his tenure at Maryland in 1989 as an assistant professor in the department of biochemistry & molecular biology. He was promoted as tenured associate professor in 1997. Barcak's research focused on bacterial genetic transformation, and he made fundamental contributions in this area. He is best remembered at Maryland as a widely admired and respected teacher who impacted the lives of a host of medical and graduate students. Barcak served on many committees in several capacities, including director of the combined PhD program in biochemistry, member of the graduate governing committee and member of the molecular & cell biology graduate curriculum committee. In addition, Barcak devoted countless hours implementing the core curriculum of the graduate program in life sciences (GPILS) and as a GPILS lecturer, group leader and module director. He also served on numerous dissertation committees and mentored

four PhD students who are now active in academia and industry. Barcak was also involved in teaching and mentoring medical students. He served on many medical school committees including the year one committee, curriculum coordinating committee, advancement committee and the committee on professionalism, and he directed the cell & molecular biology course for first year medical students. He was honored for his efforts in mentoring high school students, and in 2007 received the graduate program in life sciences teacher of the year award. Barcak's passion was education—a passion that he pursued with an ever-present smile and with selfless generosity. His trademark was the encouraging, friendly way in which he distilled clarity in the most complex and difficult scientific concepts. To honor his unique contribution to the academic community, the department of biochemistry & molecular biology has established the Gerard J. Barcak, PhD Memorial Lectureship. For more information you may contact the Medical Alumni Association. Barcak is survived by wife Dr. Carmen Salvaterra and two daughters.

James P.G. Flynn, MD
Towson, Md.
October 9, 2007

Dr. Flynn held appointments in the departments of neurology and epidemiology & preventive medicine, and he succeeded Dr. R Adams Cowley as acting director of the Shock Trauma Center. Born in Carrick-on-Shannon, Ireland, Flynn earned his undergraduate and medical degrees from the University of Dublin/Trinity College and received training in internal and preventive medicine beginning in 1964 at Johns Hopkins and the Greater Baltimore Medical Center. He also received a master's degree in public health from Johns Hopkins. Flynn served as chief of the state's division of respiratory diseases during the 1970s and in 1981 became medical director and later director of Montebello State Hospital. A pulmonary specialist, Flynn was named acting director of Shock Trauma after the announcement of Cowley's retirement in

1989, a position he held for three years. The trauma lobby has been named in Flynn's honor and a memorial fund has been established in his name. Flynn held appointments in the departments of medicine and epidemiology at Johns Hopkins. He served as the Maryland National Guard's state surgeon and medical officer and was appointed brigadier general in the Maryland Defense Force after retirement. Flynn is survived by wife Lacy.

Harry W. Johnson, MD
Greensboro, N.C.
October 8, 2007

Dr. Johnson was an associate professor of obstetrics and gynecology at Maryland beginning in the late 1980s. Born in Weldon, N.C., he attended Duke University where he received both his undergraduate and medical degrees. He interned at the University of Virginia before returning to Duke for training in OB/GYN. After serving for two years in the U.S. Navy, Johnson joined the faculty at Duke and two years later opened a private practice in Greensboro. He also served on the faculty at the University of North Carolina. He joined Maryland's faculty in 1987 where he stayed until retirement in 1993. While in Baltimore, he was a member of the Rotary Club. Johnson was preceded in death by wife Jimmie and is survived by four sons and seven grandchildren.

Beatrice L. Selvin, MD
Crownsville, Md.
November 6, 2007

Dr. Selvin served in the department of anesthesiology from 1964 until retirement in 1986. She was born in Hartford, Connecticut, received a bachelor's degree from the University of Michigan in 1941 and a medical degree from New York Medical College in 1945. Selvin received residency training in anesthesiology at Columbia University and served on its faculty until coming to Maryland as an assistant professor; she was promoted to professor in 1968 and held the position until retirement from teaching in 1982. She was clinical director of the

department beginning in the middle 1970s and was responsible for the daily management of the operating rooms. She conducted research, was widely published, and was recognized as a role model for medical students and residents. After retirement, Selvin ran for a number of elective offices in Anne Arundel County and served in several capacities on behalf of county executive Janet S. Owens. She enjoyed sailing and owned pink, white, and purple Cadillacs.

Umberto VillaSanta, MD
Baltimore
November 8, 2007

Dr. VillaSanta was director of Maryland's division of gynecologic oncology from 1962 until retirement in 1987. Born in Italy, VillaSanta grew up in Fiume but fled to Trieste with his family in 1943 to avoid the invading communist troops. He received a bachelor's degree from Trieste in 1944 but was forced into the German Army later that year. During an air raid in Trieste, he fled to join the Italian underground resistance movement, and he was later awarded medals for being wounded in action and for his resistance activities. After the war, in 1950, VillaSanta received his medical degree from the University of Padua. Training followed in Trieste and Turin, and afterwards he was awarded a U.S. grant to study in America. VillaSanta learned English while studying in Syracuse, N.Y., and then received residency training at Mount Sinai Hospital in New York City. In 1954, he came to Baltimore for training at Johns Hopkins and met wife Marguerite Marino. From 1958 until joining Maryland's faculty in 1962, VillaSanta completed training at Bon Secours Hospital and had a private practice. He conducted research and was the author of more than 60 papers published in medical journals. VillaSanta spoke six languages, enjoyed history, sailing, skiing, biking, opera, and wine collecting. 🏠

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*Tentative
Schedule*

133rd Medical Alumni Association Reunion May 2-4, 2008

Friday, May 2

8:30-10:30 am	Open House, Check-in & Continental Breakfast
9:00-9:45 am	Financial, Retirement, & Estate Planning
10:00-11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am-1:15 pm	133rd MAA Luncheon and Business Meeting, Westminster Hall
1:30-3:00 pm	14th Annual Historical Clinicopathological Conference
1:30-3:30 pm	Afternoon Check-in, Davidge Hall
3:30-4:30 pm	School of Medicine Tour
6:30-9:30 pm	The MAA Crab Feast, Baltimore Museum of Industry

Saturday, May 3

8:00 am-1:30 pm	Open House & Check-In
8:30-10:00 am	Continental Breakfast, Davidge Hall
9:00 am-1:00 pm	Excursion to the World War II Memorial, Washington, DC
10:00-11:00 am	Campus Walking Tour
10:00-12:00 noon	Visiting Egypt at The Walter's Art Museum
11:30 am-1:00 pm	Baltimore City Land & Sea Tour I
11:30 am-2:00 pm	Complimentary Picnic, Davidge Hall
1:00-1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00-2:30 pm	Baltimore City Land & Sea Tour II
Afternoon/Evening Class Reunions (years ending in "3" and "8")	

Sunday, May 4

10:00 am-1:00 pm
Brunch with the Dean,
The Reginald F. Lewis
Museum of Maryland
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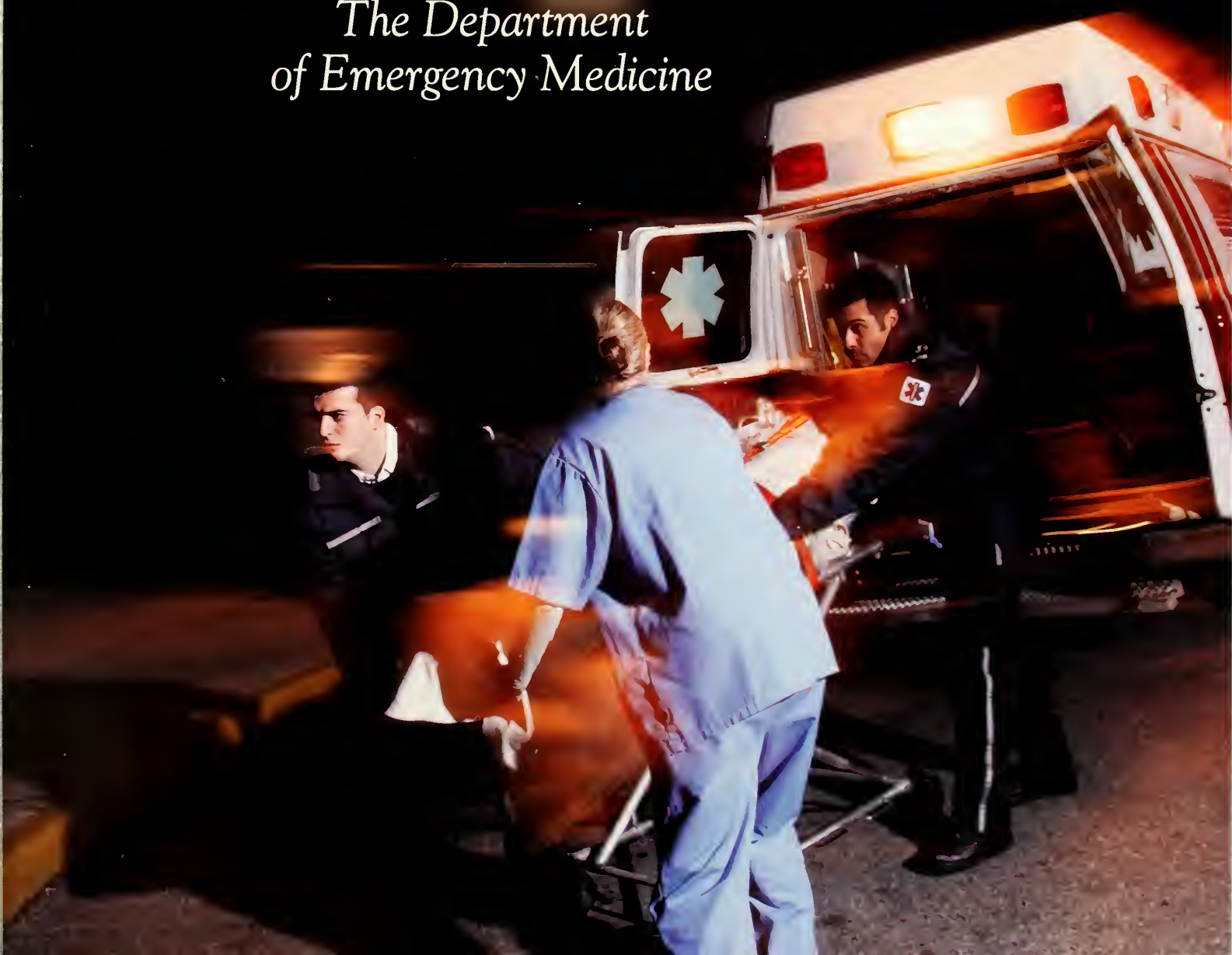
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An Identity All Its Own

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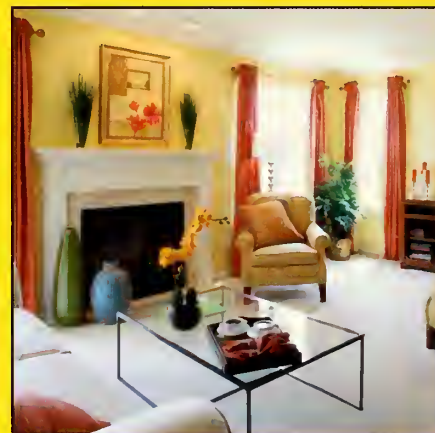


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features

An Identity All Its Own

The Rise of the Department of Emergency Medicine

In 1985, Robert Barish, MD, came to Maryland to revitalize emergency medicine. The school had lost its accredited emergency medicine residency program and EM had been downgraded from "division" to "section" status within the department of surgery. Over the next 21 years Barish, along with colleagues Brian J. Browne, MD, and Elizabeth Tso, '79, would elevate the program to its own department. And today, with restored accreditation, it is regarded as one of the country's finest.

The Evolution of Science: 2008

Maryland's Multi-Disciplinary Graduate Program in Life Sciences

The explosion of biomedical knowledge during the latter part of the 20th century compelled scientists and instructors to begin crossing the traditional disciplinary boundaries in their approach to research and teaching. This collaborative spirit is embedded in the foundation of the University of Maryland Graduate Program in Life Sciences offering cutting-edge research training in the biomedical sciences.

Alumnus Profile: Donald H. Gilden, '63

On the Heels of MS

The 2008 recipient of the Medical Alumni Association's Honor Award & Gold Key discovered that the varicella zoster virus—the virus that causes shingles—is latent in human ganglia, and his work helped lead to a herpes zoster vaccination. Lately, Donald H. Gilden, '63, and his team at the University of Colorado are attempting to zero in on the cause of multiple sclerosis.

departments

Dean's Message

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Class Notes

In Memoriam



The School of Medicine has long been committed to exporting its best practices in healthcare delivery and biomedical research to the rest of the world through collaborations with other medical centers and research institutions through our state-of-the-art telehealth and telemedicine technologies.

We have a large group of internationally-recognized clinicians and scientists who do groundbreaking research in basic, clinical and translational science, and we believe strongly in sharing their expertise with the rest of the world, where appropriate. Our faculty carry out epidemiologic, clinical and laboratory research, and work with local public health officials in many countries around the world (see table).

Indeed, the school has a long history of significant contributions to global health through research, health care delivery, outreach and public policy. Some of our initiatives are well-known, such as the center for vaccine development's (CVD) work in creating and testing vaccines for some of the world's most vexing infectious diseases, such as malaria and avian flu. Likewise, the work of our institute of human virology in treating and preventing AIDS is recognized the world over.

Other School of Medicine initiatives are lesser-known, however, such as the department of pediatrics' research into neonatal and infant infections in India, and our burgeoning research programs in protecting against bioterrorism and sequencing the genomes of major pathogens.

Although our contributions are significant, they can never be enough. For example, recent advances in medicine and technology have fueled unprecedented opportunities for improved health outcomes and extended life expectancy across the globe. Unfortunately, there has not been an equitable distribution in the allocation of these precious healthcare resources. Moreover, highly preventable diseases, such as whooping cough, measles, and malaria, which are now extremely rare in developed countries, are still raging in developing countries, leaving paths of death and destruction in their wake. Even more troubling, many developing countries lack the necessary capacity to implement even the most basic of these life-saving medical interventions. When you factor in the global shortage of adequately trained healthcare workers, the situation is extremely dire.

Over one million Africans die of malaria each year, hundreds of thousands of whom are children. It continues to be the leading killer of the world's poorest children. Undaunted, our faculty work tirelessly to make an impact on this untenable situation and are making progress. For example, our researchers recently found that an anti-malaria medication that had previously lost its effectiveness as a first line treatment for malaria has somehow regained its

effectiveness (*New England Journal of Medicine* 355:1959-1966, 2006). Chloroquine was removed from government health facilities in Malawi in 1993 after it proved ineffective at treating malaria in more than 50 percent of documented cases. However, our recent study showed that the malaria parasite has once again become susceptible to chloroquine, and the medication can potentially be used in combination with other therapies to treat the disease effectively in the future.

We also recently received a \$23.7 million grant from the National Institutes of Health for our vaccine and treatment evaluation unit (VTEU) to conduct clinical trials for promising vaccines and therapies for such diseases as malaria, dysentery, cholera and typhoid fever that affect primarily people in developing countries. The CVD's VTEU has been testing vaccines for the federal government for over 30 years to prevent a wide array of infectious diseases that affect children, adults and the elderly. These are but two examples of ground-breaking work School of Medicine faculty are doing to help alleviate suffering around the globe.

Developing countries also face some of today's most complex medical challenges, such as emerging infectious diseases like Ebola and avian flu. These diseases require novel research, technology and clinical approaches. We are leading the way in vaccine-based efforts to fight these diseases. For example, we conducted clinical trials to test the first cell culture-based pandemic influenza vaccine to see if it will provide immunity faster and more reliably than the vaccines that are currently produced in eggs. The study was also the first test in the U.S. of a whole virus vaccine for avian flu, which could produce a stronger response by the immune system.

Additionally, chronic diseases such as diabetes and cancer represent an increasing burden in resource-poor environments, since they require long-term management of patient information for optimal care outcomes. Yet the health care delivery systems and practitioners in the developing world face considerable challenges in implementing the necessary health management information systems.

Telemedicine provides critical access to medical care for remote populations, and is used to diagnose, review patient information, conduct research and manage chronic conditions. Our telemedicine capabilities in the center for health disparities and program in trauma have demonstrated significant expertise in the use of advanced telecommunications technology for health care delivery and



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
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Professor and Dean, School of Medicine

clinical consultation for remote application in reaching underserved populations in the U.S. This knowledge, applied in the context of global health, offers a significant contribution to the field and to the future health of our global community.

Similarly, distance learning is a powerful tool for expanding the number of health professionals trained throughout the world. We are already a national leader in the field of distance learning. With its existing relationships in global health, the current distance learning infrastructure can respond to the shortage of trained health care workers in developing countries and improve capacity

and skill building through remote training programs. Both of these areas must be expanded upon if we are to participate more fully in the global healthcare arena.

Through our focus on infectious disease, telemedicine and technology, international health and workforce development, geographic medicine, and bioterrorism research, the University of Maryland School of Medicine is playing an increasingly critical role in fostering opportunities to strengthen and build new partnerships at home and abroad and to respond to the challenges of global health. Working collaboratively with others, we are having an impact and indeed making a difference worldwide. 

Country	PI	Department	Title	Sponsor
Mali	Kotloff, Karen	CVD	Mali Immunization Training Initiative	Merck
Malawi	Laufer, Miriam	CVD	Molecular Epidemiology of Drug Resistant Malaria	NIH / NIAID
Bangladesh, Gambia, India, Kenya, Mozambique, Tanzania, Goteborg, Chile, Pakistan, Mali	Levine, Myron	CVD	Multi-Center Severe Diarrheal Disease Burden and Etiology Study	Bill and Melinda Gates Foundation
Chile	Levine, Myron	CVD	Live Attenuated intranasal Vaccine Against RSV and PIV3 in Health 1-9 Year Old RSV and PIV3 Seropositive Children	Medimmune
Chile	Levine, Myron	CVD	Safety Study of Menactra® (Meningococcal [Groups A, C, Y and W 135] Polysaccharide Diphtheria Toxoid Conjugate Vaccine) when Administered with Other Pediatric Vaccines to Healthy Toddlers	Sanofi Pasteur
Mali	Levine, Myron	CVD	Hib Conjugate Vaccine in Infants in Mali, West Africa	Bill and Melinda Gates Foundation
Bangladesh, Gambia, Kenya, Mali	Nataro, James	CVD	New Technologies in Diagnosis of Enteric Disease	Bill and Melinda Gates Foundation
Malawi	Plowe, Christopher	CVD	Clinical Trial of Chloroquine Combinations in Malawi	NIH / NIAID
Malawi	Plowe, Christopher	CVD	TS Prophylaxis and Drug-Resistant Malaria in Malawi	NIH / NIAID
Malawi	Plowe, Christopher	CVD	A Longitudinal Study of Chloroquine as Monotherapy or in Combination w/ Artesunate, Azithromycin or Atovaquone-Proguanil to Treat Malaria in Children in Blantyre, Malawi	Pfizer Incorporated
Mali	Plowe, Christopher	CVD	Pediatric Clinical Trials of the WRAIR-GSK Malaria Vaccine FMP2.1/AS02A	US Army Med Res & Dev Command
Mali	Plowe, Christopher	CVD	Malaria Vaccine Trials in Mali	NIH / NIAID
Mali	Plowe, Christopher	CVD	Malaria Research Training in Mali	NIH / Fogerty
Mali	Tapia, Milagritos	CVD	Meningitis Vaccine Project (MVP) Vaccine Trial	Prog for Approp Tech in Health
Mali	Tapia, Milagritos	CVD	Efficacy, Safety & Immunogenicity of RotaTeq Among Infants in Asia & Africa	PATH
Egypt	Hirshon, Jon Mark	Emergency Medicine	Injury Prevention Research Training in Egypt	NIH - Fogerty
Egypt	El-Kamary, Samer	Epidemiology & Preventive Medicine	Towards Understanding the Morbidity of HEV Infection	University of Cincinnati
Germany	El-Kamary, Samer	Epidemiology & Preventive Medicine	Evaluation of Silymarin & Management of Acute Viral Hepatitis	Madaus GMBH, Germany
Australia & China (Hong Kong)	Berman, Brian	Integrative Medicine	Functional Bowel Disorders in Chinese Medicine	NIH / NCCAM
Brazil, Caribbean	Blattner, William	Medicine / IHV	IHV/UMB AITRP in the Caribbean and Brazil	NIH - Fogerty
Brazil, Caribbean, Nigeria	Blattner, William	Medicine / IHV	IHV UMB AITRP in Brazil, the Caribbean & Nigeria	CDC
Nigeria	Blattner, William	Medicine / IHV	HIV/AIDS Prevention, Care & Treatment in the Federal Republic of Nigeria	CDC
Nigeria	Blattner, William	Medicine / IHV	Collection of Serum Specimens Suitable for Validation of Assays w/ HIV-1	CDC
Nigeria	Blattner, William	Medicine / IHV	Peer Educators Impact on HIV Medication Adherence	Doris Duke Charitable Fnd
Nigeria, Haiti, Guyana, Rwanda, Zambia, Kenya, Tanzania, Uganda	Redfield, Robert	Medicine / IHV	PEPFAR	CDC / HRSA
Egypt	Silverman, Henry	Medicine/Epidemiology	International Research Bioethics Training Program: Egypt	NIH - Fogerty
Vietnam	Kaljee, Linda	Pediatrics	Gender Relations, Sexual Behaviors & Perceived HIV Risk	NIH / NIAAA
Vietnam	Kaljee, Linda	Pediatrics	Integration & Adaptation of HIV & Alcohol Risk	NIH / NICHD
India	Panigrahi, Pinaki	Pediatrics	Prevention of Neonatal Infection in the Indian Community	NIH / NICHD

EVENTS

Wilson Honored with Scholarship

The Medical Alumni Association recently teamed up with the medical school and its program on minority health and health disparities education and research to honor former dean **Donald E. Wilson, MD, MACP**. A dinner was held at the Center Club in downtown Baltimore on February 9 for more than 100 alumni, faculty, staff, students, and friends of Wilson and the medical school. The featured speaker was Dr. Luther T. Clark, a cardiologist with Merck & Co., and former colleague of Wilson at the State University of New York Downstate Medical Center and Kings County Hospital Center in Brooklyn. During the event, **Otha Myles, MD '98**, treasurer of the MAA, announced that \$25,000 has been raised for a scholarship recognizing Wilson's work in promoting diversity. Contributions to the fund are being accepted by the Medical Alumni Association.

Note: Photographs from this event are available on the MAA website: www.medicalalumni.org. Please visit our site to copy your favorites.



Former University of Maryland Medical System president Morton I. Rapoport, '60, and wife Rosalie, visit with James Frenkil, '37

EVENTS

Frenkil Earns Lifetime Recognition Award

The medical school and alumni association honored **James Frenkil, '37**, for more than 70 years of service to the medical school. A lifetime recognition award was presented by **Dean E. Albert Reece, MD, PhD, MBA**, at a reception March 11 at the Center Club.

Throughout Frenkil's career he remained close to the medical school. After dabbling in private practice early on, he established Central Medical Center in 1946. It became the largest occupational medical practice on the east coast and one of the largest in the country. In 1995, eight years after selling the practice, he donated the building (the Frenkil Building) to the medical school. In addition, he established an endowment to support research, training, and education in occupational medicine. Frenkil was a frequent medical school lecturer on subjects ranging from pathology to oncology. He was a longtime member of the medical school board of visitors, served as captain for his class of 1937, was elected president of the MAA in 1987, and received its distinguished service award in 1994. In 1997, he was elected as an honorary lifetime board member of the MAA—a privilege granted to only one other graduate in the history of the medical school.

More than 50 family, colleagues, and friends attended the event including former dean **John M. Dennis, '45**.



MAA treasurer Otha Myles, '98, MAA board member Charlotte Jones-Burton, '99, former SOM dean Donald E. Wilson, MD, MACP, SOM dean E. Albert Reece, MD, PhD, MBA, Luther T. Clark, MD, and MAA president-elect Ronald Goldner, '65.

EVENTS Mackowiak, Featured at Beethoven Concert

Philip A. Mackowiak, '70, professor and vice chair for the department of medicine, was a guest expert at a Baltimore Symphony Orchestra concert featuring the work of Ludwig van Beethoven on February 27. Entitled "CSI: Beethoven," the concert at Joseph Meyerhoff Symphony Hall blended some of the composer's finest work with details of his hearing loss and death. Mackowiak concluded that Beethoven was afflicted with syphilis. Mackowiak is the architect of Maryland's annual Historical Clinicopathological Conference, which examines mysterious illnesses of historical figures. Beethoven was the subject for the 1997 conference. 🏛️



Philip A. Mackowiak, '70, top, at the Meyerhoff with Irving Taylor, '43D, Gloria Hack, Lisa Achin, Rick Taylor, '75, MAA executive director Larry Pitrof, Kathie Taylor, Carolyn McGuire-Frenkel, Elisa Pitrof, and Thomas Hunt Jr., '54

[Note to Readers]

In the feature on the department of family medicine in the winter issue, the captions were reversed in photographs of Drs. Vivienne Rose, '92, and Verlyn Warrington, '92. The *Bulletin* editorial board apologizes for its error.

Transitions



Silverman Retires

After nearly 35 years at Maryland, David J. Silverman, PhD, professor of microbiology & immunology, retired on December 31.

Silverman received his PhD in medical microbiology from West Virginia University in 1971 and was a post-doctoral fellow with the U.S. Public Health Service in the department of microbiology's division of cell biology at Dartmouth Medical School from 1971 to 1973. He joined Maryland's faculty as an assistant professor of microbiology in 1973 and became professor of microbiology & immunology and pathology in 1993.

A recipient of several teaching awards, Silverman plans to continue serving as section head for bacteriology in the second year medical course entitled "Host Defenses and Infectious Diseases" as well as teach both lectures and laboratories in this course. He will also be retained as a member of the medical school admissions committee. 🏛️

Physician Shortage a Growing Concern

A comprehensive study of Maryland's physician workforce shows that the state has a growing shortage in clinical practice, a situation that could become dire for patients. The study, led by **Robert Barish, MD**, vice dean for clinical affairs, found that overall, Maryland is 16 percent below the national average for the number of physicians in clinical practice. The most severe problems occur in rural parts of the state and will worsen by 2015, based on the study's findings.

Spurred by reports of projected national shortages in physician supply and specific concerns about the professional environment in Maryland, the Maryland Hospital Association invited the Maryland State Medical Society to join them in undertaking a comprehensive examination of the physician workforce. A steering committee, led by Barish, was formed including physician, hospital, and state agency representation.

According to the study, the widest gaps are in primary care, emergency medicine, anesthesiology, hematology/oncology, thoracic and vascular surgery, psychiatry and dermatology. The study also finds Maryland has only a borderline supply of orthopaedic surgeons.

The situation in Southern Maryland, Western Maryland and the Eastern Shore is the most alarming. All three regions fall significantly below national levels in currently practicing physicians. Southern Maryland at present has critical shortages in 25

of the 30 physician categories (83.3 percent); Western Maryland 20 of 30 (66.7 percent) and the Eastern Shore 18 of 30 (60 percent).

Hospitals throughout the state report difficulty in finding medical specialists to cover patient needs and support their emergency departments. Also, the study indicates there will be future shortages in all pediatric specialties except neonatology, as well as a projected statewide shortage in diagnostic radiology.

Barish pointed out that one of the reasons for these shortages is an aging workforce. "By 2015, 32 percent of the current workforce is expected to retire. The current supply of general surgeons statewide now meets only 90 percent of what is needed; by 2015, the supply of surgeons is expected to shrink even further to 80 percent of what is needed statewide."

According to Barish, the number of residents trained at Maryland hospitals who opt to practice in-state is insufficient to make up for this wave of retirements. "Residency program directors indicate that the 52 percent of residents who now go on to practice in Maryland could fall to as low as 25 percent by 2015. Not nearly enough clinical practitioners will be moving into Maryland to offset these factors," he said. "Therefore, it is crucial that we act now to increase the number of residents staying in Maryland to practice medicine at the conclusion of their training."

The study calls for a number of legislative remedies, including higher physician fees; so Maryland is competitive nationally, and a state loan forgiveness program that will draw young physicians to regions most in need. 🏠




Robert Barish, MD

Federal Funding for Transplant Research to Aid Wounded Soldiers

U.S. senator Benjamin L. Cardin has secured \$3 million in new federal funding to the medical school for a program to develop new tissue transplantation techniques that could benefit soldiers and others who have been severely injured. U.S. senator Barbara A. Mikulski and Congressman Dutch Ruppersberger both strongly supported funding for the tissue transplant research program.

The medical school's groundbreaking research, under the direction of **Stephen T. Bartlett, MD**, professor and chairman of the department of surgery, would allow for tissue transplants with reduced doses of powerful immunosuppressive drugs. Currently, transplants require the use of powerful drugs to dampen the body's natural immune system which would otherwise reject the transplanted tissue. These drugs can cause serious side effects, especially if used over many years. Soldiers with war injuries who might benefit from massive tissue transplants of skin, muscle, and bone, known as composite tissue transplants, would require a lifetime of immunosuppressive drugs.

This new federal funding will allow further research into the development of composite tissue transplants—including facial and limb transplants—not requiring high doses of immunosuppression therapy. With a reduced immune suppression protocol, composite tissue transplantation, including facial transplants, may become feasible.

The U.S. Department of Defense has reported that approximately 31,000 U.S. military personnel have been injured in Iraq and Afghanistan; nearly 500 of those are Marylanders. 



U.S. Senator Benjamin L. Cardin with Dean E. Albert Reece, MD, PhD, MBA, and surgery chair Stephen T. Bartlett, MD

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Enhancing Treatment of Heart Rhythm Abnormality

Cardiologists at the medical center are among the first in the world to combine advanced three-dimensional PET/CT imaging with standard techniques to treat ventricular tachycardia. The imaging component offers the potential to improve precision and patient safety, reduce treatment time and boost the success rate of ablation therapy, using high-energy radio waves to redirect the heart's electrical pathway to prevent abnormal heart rhythms.

The usefulness of this sophisticated technology is confirmed in a medical school study that was published in the January 2008 issue of the *Journal of the American College of Cardiology's Cardiovascular Imaging*. The study is the first to compare the combination of advanced high-resolution PET (positron emission tomography) and CT (computed tomography) images with traditional catheter-based electrical mapping of the heart to guide the ablation treatment.

"With this advanced imaging we know where the scar tissue causing the abnormal rhythms is located before the patient comes for treatment," says principal investigator **Timm-Michael L. Dickfeld, MD, PhD**, a cardiologist with expertise in image-guided electrophysiological procedures at the medical center. "The PET/CT imaging has the potential to reduce the time patients spend in the electrophysiology lab by several hours," says Dickfeld, an assistant professor of medicine. "Additionally, the imaging should make the procedures more precise and more successful."

Medications are typically the first-line therapy for ventricular tachycardia, but their use is often limited by side effects and a reduction in effectiveness over the long term. Most patients diagnosed with ventricular tachycardia are given internal cardiac defibrillators that shock the heart to correct electrical abnormalities. Dickfeld notes that radiofrequency ablation is an appropriate treatment for many of these patients. The goal is to reduce or eliminate the need for defibrillator jolts.

Scars, which often form in the heart muscle after a heart attack, cause most of the spiraling electrical



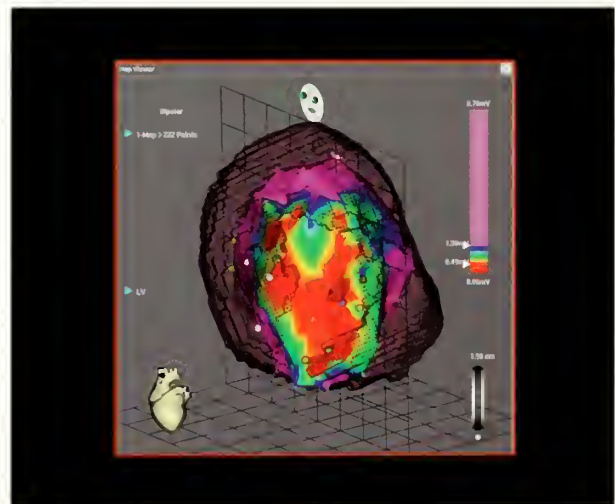
Timm-Michael L. Dickfeld, MD, PhD

signals characteristic of ventricular tachycardia. The current "gold standard" method to determine scar location is voltage mapping—inserting a catheter with an electrode into an artery through the groin.

By contrast, CT imaging shows the heart's anatomy while PET imaging distinguishes between healthy and abnormal cardiac tissue by keying in on cellular function and metabolism. The combined result is revealed in 3-D images of both the inner and outer surfaces of the heart muscle and the coronary arteries. The imaging is currently used in combination with electrical mapping. Once the scars

are defined, the imaging also helps improve the accuracy and efficiency of the ablation process.

The study concluded that PET/CT imaging can accurately predict the location and extent of left ventricular scar tissue and the border between scarred and normal heart tissue. It also found that integration of a 3-D scar map into a clinical mapping system is feasible and shows additional scar data not available from voltage maps alone. Co-investigators from nuclear medicine and radiology included **Vasken Dilsizian, MD**, **Raj Shekhar, PhD**, and **Jean Jeudy, MD**. "This speaks to the strengths of our medical center that all different disciplines join forces to improve patient care," concludes Dickfeld. 🏛️



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An Identity All Its Own

The Rise of the



By Caelie M. Haines

Department of Emergency Medicine



Elizabeth Tso, '79, Robert Barish, MD, FACEP, FACP, and Brian Browne, MD, FACP, in 1985

It's hard to believe everything that's transpired over the past two decades.

Emergency medicine at Maryland, reduced to a paltry section within the department of surgery in the mid 1980s after its residency program lost accreditation, is now recognized as one of the nation's best departments.

Says Ron M. Walls, MD, FRCPC, FACEP, FAAEM, chair of the department of emergency medicine at Brigham and Women's Hospital in Boston, the first professor of emergency medicine at Harvard Medical School, "The department of emergency medicine at Maryland has emerged as one of the leading departments in the country. I think that's because of its stable leadership, a first-class residency, and a great reputation for outstanding clinical care and training other leaders in our specialty."

It Started with Just Three

"It was the Wild, Wild West." That's how Robert Barish, MD, FACEP, FACP, describes the emergency department at Maryland when he arrived in 1985. In addition to high volumes of patients with medical and surgical emergencies, there was such a high number of victims of violence that "they called us the knife and gun club," recalls Barish, who was chief of emergency medicine until 1996, and is now vice dean of clinical affairs at the medical school. "We were opening chests—sometimes two or three a night with gunshot and stab

EMERGENCY



Drs. Elizabeth Tso, '79, EM chair Brian Browne, MD, FACEP, and Robert Barish, MD, FACEP, in 2008

In addition to high volumes of patients with medical and surgical emergencies, there was such a high number of victims of violence that “they called us the knife and gun club,” recalls Barish . . . “We were opening chests—sometimes two or three a night with gunshot and stab wounds—in little trauma bays.

wounds—in little trauma bays.” Barish stops, shaking his head in disbelief, but the smile on his face is a fond one.

The impetus behind that change was Barish and his friends and colleagues—Brian J. Browne, MD, FACEP, now acting chair of the department, and associate professor Elizabeth “Betty” Tso, '79.

Fresh off training, Barish had been offered a position as residency director at Georgetown. He admits to interviewing at Maryland solely for the experience: “I felt people would think I was too young and inexperienced to be chief of emergency medicine. But they offered me the job, and it was an opportunity I couldn't pass on,” he recalls.

As for Browne, there was only one fellowship in emergency medicine in the country at the time—up at Harvard with Massachusetts General—“and Brian had earned that fellowship,” remembers Barish. “We had kept in contact since training together in medicine at St. Vincent's Hospital in New York; so I called him after I was hired and offered him the post of clinical director of emergency medicine. I was delighted that he accepted.”

After graduating from Maryland in 1979, Tso had also trained here but had taken a job at Union Memorial Hospital. “I missed Maryland,” she says. “I was comfortable at the school and enjoyed working with the patients,” she adds. “And I was excited to come back and join Bob and

Brian. Plus, it was a golden opportunity to help build a new program from the ground up. There has always been great potential here.”

“We had nothing,” Barish says with a smile. “We were the section, the three of us. They called us the Killer Bs—Bob, Brian, and Betty. There was no faculty; no real program. Imagine walking into that your first day,” Barish says.

Undaunted, the three quickly went to work. “We focused on clinical care and started a program for medical student education right away,” recalls Browne. “We also worked on implementing another residency program and one year later became part of a consortium with Georgetown and George Washington University. It was called the Georgetown/GW/University of Maryland Emergency Medicine Residency.”

Emergency medicine had just become a recognized specialty in 1979; so finding faculty to provide quality care was a challenge. Barish, Browne, and Tso were all board-certified in emergency medicine, but they had more traditional training as well (Barish and Browne were board-certified in medicine, and Tso had done a residency in obstetrics & gynecology before switching to EM). As they were proving themselves as capable clinicians, Barish was also recruiting former colleagues and friends within the small community

of emergency medicine to fill his staff. "We just built it up slowly, and we never lost anybody," Barish says. "We didn't lose any faculty, even with a facility that was at the time considered suspect. We had a camaraderie and became very good friends, and we built something out of nothing. It was a real *esprit de corps*."

For Tso, it was a riveting experience. "We learned about administration, billing, and getting along with other departments by making some mistakes," confesses Tso. "Ours was a small mom-and-pop operation. We were coding our own charts in a former janitor's closet in the ED!" she recalls with a laugh.

On the Move

But by 1990, Maryland was ready to run a residency program on its own. "So we applied as a stand-alone residency with the Shock Trauma Center and the Maryland Institute for Emergency Medical Service Systems as our partners, and we got approved on the first go-around," says Barish proudly.

The residency was headed by DePriest Whye, MD, JD, who had trained with Barish at Georgetown and is now CEO for the Maryland Medicine Comprehensive Insurance Program. This move toward independence "came with lots of responsibilities," Browne admits. "But having our own education program is one of the main distinguishing features between a section and a division. And so we were on a roll in the development and advancement of our specialty."

It took a little more than two decades for the three to realize their ultimate dream of having a department of emergency medicine at Maryland. "It took us 21 years, but we built it from nothing into a complete department," says Browne. "Achieving the recognition for the medical school in 2006 was extremely important, and it's also a crowning achievement for one's career—to be recognized by your peers for this accomplishment."

All three physicians expressed gratitude for the nurturing support from Morton I. Rapoport, '60, former CEO of the University of Maryland Medical System, John Kastor, MD, former chair of medicine, and Joseph S. McLaughlin, '56, former chair of surgery.

Changing with the Times

The "knife and gun club" is no more. These cases are now handled primarily by Shock Trauma. "At one time we had two separate trauma centers, but now they are combined," Barish explains. "Gunshot wounds, major motor vehicle injuries, and multiple trauma are all routed to Shock Trauma." Shock Trauma, however, has its own identity. It is located in a separate building with its own mission and multi-disciplinary program, although emergency medicine residents complete a rotation through the center.

Stroke, acute MI, septic shock, pneumonia, internal bleeding, abuse, drugs, alcohol, and psychiatric emergencies—all of this is standard emergency medicine. Yet not all emergency patients have dire medical needs. Many people decide that a two-week wait to see their doctor is too long when a convenient alternative is to sit in the emergency department for a few hours to get a consultation with the most sophisticated imaging. According to Browne, that's just a sign of the times in which we live.

The emergency department has also become the diagnostic center and silent partner for private doctors who send patients for work-ups after hours. This has led to a shift in the emergency department population. "There's a popular belief that only the uninsured are accessing emergency rooms," says Barish. "But it's people who have insurance, too. They all want answers."

The convergence of critical care, emergent care, urgent

care, convenient care, and after-hours care has led to the overcrowding of emergency departments across America. Because of the efficient way associate professor Dick Kuo, MD, medical director of the emergency department, Browne, and the staff have handled the overcrowding at the University of Maryland Medical Center, the department is now staffing departments at Mercy Medical Center, Bon Secours Hospital, Maryland General Hospital, and the Baltimore Veterans Administration Medical Center. In addition, a statewide network of Washington County Hospital, Memorial Hospital at Easton, Dorchester Hospital, Upper Chesapeake Health System, and Harford Memorial—sees 450,000 patients each year. "They get great emergency departments in exchange for supporting our faculty," says Browne. "And it's



Elizabeth Tso, '79

given us the chance to expand. It's worked out extremely well." In addition, Maryland Expresscare, a critical care and communication transport system, moves 7,500 patients each year from community hospitals to the medical center. The service was developed by Michael Rolnick, MD, and Wade Gaasch, MD.

A Growing Attraction

The broadness of emergency medicine is one of the factors attracting students to the specialty, but Maryland's leadership also deserves ample credit. With education acting as a top priority, they expanded the scope of teaching as emergency medicine grew from section to division to department. Initially, Tso was in charge. "My special focus has been medical students," she explains. "I was given the task of creating a student elective in EM for third- and fourth-year students. It has always been an extremely popular elective, as our students get a lot of direct patient contact and responsibility. Patients are our best teachers."

Kenneth Butler, DO, associate professor and associate residency director, has been responsible for recent upgrades to the emergency medicine component of the medical school curriculum, while Robert Rogers, MD, directs the fourth-year elective. Today their offerings—and emergency

medicine in general—continue to flourish, as each year more than 10 percent of Maryland's graduating class heads into emergency medicine as a career choice.

"We have outstanding clinical physicians and teachers," Browne adds. "I think that's extremely important because they're the reason residents want to come here for their education. The second thing we offer is outstanding opportunity. We're based in a really great hospital, and our affiliations are outstanding as well."

Amal Mattu, '93, residency director for emergency medicine, is an award-winning teacher and nationally recognized for emergency medicine curriculum development. Under his direction, the residency program has blossomed. Maryland is the only institution in the country to have a four-track emergency medicine residency training program. Its primary three-year program accommodates 30 residents. The combined, five-year EM/IM track and six-year, triple boarded EM/IM/critical care track are both co-directed by Michael Winters, MD, and each accept two residents every year. Another two residents are accepted annually for the combined, five-year EM/pediatrics track, co-directed by David Jerrard, MD. Also supporting resident education is a nationally-recognized emergency ultrasound program developed by Brian Euerle, MD.

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Amal Mattu, '93



Dick Kuo, MD

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EM chair Brian Browne, MD, FACEP

With such strong talent in the pipeline, Browne is leading another charge—to conquer the field of research with the same success they've had with education and clinical practice. "Several members of our faculty have been involved in collaborative research with other departments, and through that synergy we have started getting some noteworthy NIH grants," he says. "Many of these have been in the area of public health and health surveillance studies, as well as more recent collaborative research with departments such as neurology," Browne says.

Heading up the department's research effort are associate professor Jon Mark Hirshon, MD, and associate professor Michael Witting, MD. Hirshon is principal investigator for more than \$2.4 million in federal research grants and is principal investigator for an injury prevention training grant in Egypt. It includes traveling with his team to the Middle East to train Iraqi and Egyptian health professionals in emergency preparedness and disaster response.

"We have enormous potential," concludes Browne. "Maintaining excellence in areas where we've already achieved excellence is no less of a priority, though. We have a great program, and we need to pay attention to it to make certain it stays great."

Barish is confident it will. "Brian deserves so much credit for bringing this department to where it is today," he raves. "And I'm excited to see the way it will continue to grow under his leadership." 



Photos on pages 12–15 by Richard Lippenholtz

The Evolution of Science: 2008

Maryland's Multi-Disciplinary Graduate Program in Life Sciences

In the 19th century, when Pasteur and Nobel were novices in a profession virtually without history or guideposts, science flourished in an open arena. Its practitioners were energized by the unknown, and by the need to explore well beyond experiments in their own laboratories. Then, as scientific endeavor matured, research became less integrated, possibly as the result of a basic blueprint of information that made collaboration less imperative.

All that changed, however, with the sequencing of the genome, and the explosion of biomedical knowledge demanding that scientists—and educators—begin to think across disciplinary boundaries. That's exactly what the University of Maryland Graduate Program in Life Sciences (GPILS) is all about.

By Rita M. Rooney

Photos by Richard Lippenholz

"Science is changing and becoming more multi-disciplinary," says Margaret M. McCarthy, PhD, assistant dean for graduate studies, professor of physiology, and director of the GPILS, who explains that the restructured initiative embraces a dynamic approach to education in the life sciences. "Traditional departments can no longer define research areas," McCarthy explains. "There is an issue of redundancy when education is restricted to departments. In that scenario, you would have cancer biology taught in both physiology and pharmacology, and students in those classes would have less opportunity to interface."

The case for interaction among faculty and students is made by a GPILS core course involving 55 faculty members from 12 departments and four schools, broadening considerably the opportunity for both student and faculty collaboration. Each of the major degree-granting GPILS programs has its own admission criteria and standards, and includes faculty from multiple departments, but are independent of departments. They encompass the entire range of biomedical research, from the basics of protein structure and molecular biology to integrative systems physiology, virology, and vaccine development. Included as well are behavior, cognition, population based genetics, prospective studies, and the environment's impact on health.

"From the start, the dean made it clear our purpose in developing the GPILS was not related to administrative efficiency," McCarthy says. "Our directive was to put together the very best graduate program."

It would seem they succeeded. While still in its youth, the program has resulted in an 85 percent increase in applications, paralleled by a higher level in the maturity, academic standing and research experience of applicants. Students matriculating in the Fall of 2007 showed a 77 point advantage in GRE scores over those matriculating in 2006.

A Meeting of the Minds

Such early success is not the spoils of a hastily conceived endeavor, however. The GPILS is a result of careful planning followed by meticulously organized execution. Asaf Keller, PhD, professor of anatomy and neurobiology, chaired the faculty committee charged with developing the program. "It took



Margaret M. McCarthy, PhD

us almost two years," Keller says. "We were a cross section of personalities with a single objective. We debated every component, from structure to the philosophical direction. Should we group all disciplines into a single program, or create a large number of programs? There were more than 10 programs to be incorporated within the new structure. We wound up with five, and a total faculty of more than 100. "More important than our committee's recommendations was their implementation by GPILS leadership, particularly that of Peg McCarthy, and the strong support of our vice dean, Dr. Bruce Jarrell," Keller says.

Addressing some of the challenges, he says, "Heading a program brings with it a degree of power that is understandably difficult for some faculty members to give up. But we got through it, and I think all would agree the program we have in place was well worth the effort."

He adds that neuroscience, a particularly strong program that is in itself interdisciplinary, became the model on which to organize other disciplines. Keller notes the faculty committee was motivated by the need to move beyond a narrow educational focus to a contemporary need for programs that answer the more probing questions within science today. "Students are the best barometer of our success," he says. "We use scores as one of the metrics to screen applicants, and since the reorganization, we have seen increasing numbers of students with strong interests in understanding and curing disease processes. Few come here with the fundamental questions they had in the past. We are admitting more students interested in psychiatry, drug abuse and other issues they see around them"

Commenting that most students wind up doing something completely different from what they originally planned, Keller believes one can attribute that to the program. "They are exposed to a borderless education, with



Margaret M. McCarthy, PhD, with GPILS program manager Tom McHugh

multiple mentors, a program that doesn't pigeon-hole a student," he says.

McCarthy lauds Keller's exhaustive commitment to the formation of the program. "Asaf's leadership guided an opinionated, sometimes fractious group toward consensus, with very clear recommendations to the dean," she says. "One measure of his success is that it is his vision that was implemented."

If student ratings are any indication of a program's success, the GPILS is scoring an A plus on every count. Students, some of whom have had experience in departmental programs, are quick to cite the versatility, integration, and research opportunities at the University of Maryland. Many say they are unexpectedly pleased by the availability of so many professors with such varied professional backgrounds.

Jackie Schwarz is a PhD candidate in the neuroscience program who plans to do her post-doctoral work at The Rockefeller University. Her now completed research at the University of Maryland studied sexual differentiation in the brain, looking at the impact of early hormone exposure that occurs exclusively in the male brain.

Integrated Programs of the Graduate Program in Life Sciences

- ◆ Program in Biochemistry and Molecular Biology
- ◆ Program in Molecular Medicine
- ◆ Program in Molecular Microbiology and Immunology
- ◆ Program in Neuroscience
- ◆ Program in Physical Rehabilitation Science
- ◆ Program in Epidemiology and Preventive Medicine*
- ◆ Program in Toxicology*
- ◆ Program in Gerontology*

*Beginning July 1, 2008



Schwarz is a profoundly serious student with high expectations for a successful career in academic science. She won a National Institutes of Health (NIH) predoctorate award, making her recent work at the GPILS self funded. She received a \$500 Florence Hasseltine Award, and best oral presentation for the University of Maryland Graduate Conference, as well as a young investigator award for a steroid and gene expression conference in Colorado, where she gave a presentation. She gives high marks to the GPILS for motivating her interest in the area of development. "I have benefitted from the help of so many people here," she says. "They have given me a tremendous background in neuroendocrinology, but also have helped me become competent in synaptic physiology and other aspects of neuroscience. In any other program, I would have had limited exposure within my immediate field."

Twenty years ago, a professor could expect students to become relatively well grounded in their specific area of science, and to be familiar with the literature on various subjects within their fields. Not so today. Thomas W. Abrams, PhD, associate professor of pharmacology, and chair of the GPILS curriculum committee, points to the number of papers published on one topic, protein kinases, in recent years. "There were 16 papers on kinases published in 1975," he says. "In 2005, there were 8,600. Literature has mushroomed. It isn't reasonable to expect students to read all that is available on any one subject today. We need to be thinking differently, and we need to teach students differently."

Looking back to the curriculum committee he chaired in the early days of the GPILS, Abrams says, "We had a group of outstanding educators from diverse backgrounds—from cancer research, to neuroscience, molecular medicine, electrophysiology, and biophysics. Many of us didn't know each other at the beginning, but it didn't take us long to adopt a relatively philosophical approach to creating the curriculum. We stood back and asked what it was that we had to do to design an innovative and challenging program for our graduate students."

The explosion of recent scientific knowledge, the realization that it is impossible for a student today to absorb all

If student ratings are any indication of a program's success, the GPILS is scoring an A-plus on every count. Students, some of whom have had experience in departmental programs, are quick to cite the versatility, integration and research opportunities at the University of Maryland.

that is published, or to know everything there is to know about a research topic guided the committee in its efforts to challenge students beyond the absorption of knowledge. "We decided it was more important for students to read literature critically than to master bodies of knowledge," Abrams says. "If we emphasize facts, we can only expose them to a minuscule of those available, and we will not be training them to be effective scientists."

According to Abrams, there is a critical reason for traditional program change that goes to the heart of the GPILS initiative.

He believes that, within the science community, many researchers, even mature scientists, don't really understand the process of asking scientific questions. "Even when it comes to defending their dissertations, too many students have not thought deeply about what it means to ask the central questions of interest," he says. "They may be getting results, getting papers published, perhaps getting



Asaf Keller, PhD



Asaf Keller, PhD with student Georgia Dendrinos

grants funded. But they stop there, and don't ask the really important questions."

He reasons that the inability of students to effectively ask scientific questions is the result of educational models that do not teach how to test scientific hypotheses. The GPILS core course does just this. It addresses the issue of testing hypotheses, and how to ask the probing questions that are the essence of good science.

Dudley Strickland, PhD, professor of surgery and physiology, and program director for the GPILS program in molecular medicine, reports that the program gives students exposure to more faculty than traditional department-based programs. For example, although Maryland has a strong physiology department, it has about 25 faculty members, compared to more than 100 biomedical researchers in his GPILS program. "We can actually custom tailor a curriculum, based on a student's needs," he says. "For instance, a student interested in the genetics of cancer can take the cancer biology courses, as well as electives in the genetics area, and do lab rotations that provide the technical expertise."

He points as well to the advantages science students have in their proximity to the university's institute of genome sciences, which is at the forefront in the sequencing of microorganisms. "This is an extraordinary genomics program," he says. "We have investigators using fruit flies, C-elegans and zebra fish, and looking at bacteria that reside in the human organism. Students have access to state-of-the-art sequencing facilities and experts in bio-informatics. This is all very exciting for students because it's new."

Strickland explains students also have access to outstanding core facilities. They can work in the core NMR facility, which at most universities is available only to select faculty. Another available core facility is the proteom-

ics lab, where proteins are identified in biological fluids. Instead of shipping their samples elsewhere, students can have one-on-one interaction with scientists who help them in their identification of a specific protein.

The Celebrity of Molecular Medicine

The availability of these facilities and the interaction with top scientists working in newly emerging scientific arenas underlines the popularity of molecular medicine. Strickland says this is due in part to advances during the past 25 years. "Now that we have a variety of genomes sequenced, we are looking at genetic variation, and investigating how disease occurs at the molecular level," he says. "We're going to see a tremendous progression of molecular medicine in the next 25 years—and our students are positioning themselves to take a lead in it."

High on the list of reasons students with the best academic credentials are applying to the University of

"We decided it was more important for students to read literature critically than to master bodies of knowledge," Abrams says. "If we emphasize facts, we can only expose them to a minuscule of those available, and we will not be training them to be effective scientists."

Maryland program is the opportunity to do important research. Commenting on the proteomics lab as an example of how the GPILS enables exceptional student research capabilities, Strickland says the student can participate at his or her own level of interest.

"If a student just needs the instrumentation for a lab project, he or she can observe," he says. "But if a student really wants to learn the technology, and is interested in making a career in proteomics, that student has a chance to work side-by-side with the pros. There aren't many places where that is possible."

The element of quality student research is a double-barreled plus factor at the GPILS, where it enhances collaborative opportunities for both students and faculty. Keller says the program is seeing a significant number of students with extensive research backgrounds, many of whom have done research at the NIH and Centers for Disease Control & Prevention while undergraduates. "Students are becom-

ing our research colleagues," Keller says. "They allow us to be more interdisciplinary ourselves. It is often students who make the link between GPILS research and research being done in other laboratories."

He reports that a student interested in the mechanisms of pain being studied in the Keller lab found another faculty member with similar interest approached from a different perspective.

"He put the two of us together," Keller says. "Now, we're working together, and collaborating on papers and grant applications."

McCarthy reports that she too has benefited from student research. McCarthy reports the GPILS is responsible for her interaction with a researcher doing work in prostaglandins similar to her own research. "Amy Fulton is a world class expert, studying prostaglandins in cancer research," she says. "Neither of us knew of the other's work, but we've since connected, and she is serving on the thesis committee of my student, Christopher Wright, who is making important discoveries relative to the impact of prostaglandins on normal brain development."

"I cannot over emphasize the importance of our graduate programs to our research mission," McCarthy says. "Our students are a highly skilled work force. We have the highest standards and select them very carefully. We're making an investment in each student we accept, and the return on that investment is considerable because of the research they perform."

Student communication is a high priority at the GPILS, where internet and intranet programs pair with one-on-one interaction in keeping students not only attuned to what is happening, but better prepared in curricula.

Tom McHugh, program manager, refers to available technology that allows students to go on line immediately following a lecture to download a movie file of the lecture for study sessions, or an MP3 file for Ipod use as a study aid.

The program doesn't rely on electronic communication alone in responding to student concerns however. A seminar series featuring PhDs, MD/PhDs and DDS/PhDs who are working outside academia, provides students with information on careers available to scientists with their skills. Held during luncheon sessions, they provide an ideal opportunity for students to engage the speaker on a personal level.

"We have invited speakers from the FDA, pharmaceutical companies, and in patent law," McHugh reports.

"We've had editors of scholarly magazines and those in venture capital. What we want our students to realize is that there is power in their training here. When they leave, they will be well prepared for the academic path, but will have many other options as well."

Communication with applicants is taken seriously as well. A complex internet/intranet system has ability to track prospective students from application to matriculation. An original application becomes part of a personal



Dudley Strickland, PhD

profile where GRE scores, transcripts and letters of reference can be scanned as pdfs and made available to faculty.

"This makes it easier for programs to share materials," McHugh explains. "It also helps in our recruitment of top students. We have information chat rooms, where a prospective student can connect with faculty and current students. Depending on an applicant's questions and interest, he or she can move into a virtual chat room to talk with others in that field."

Looking ahead, Keller believes that the strength which the program has achieved through flexibility will sustain it in the future. "That being said, it would be my recommendation that the program remain a dynamic one, open to change," he says. "What we originally decided was the right organizational structure may not serve us down the road. Priorities change. Science changes. This program was created to be flexible, and that flexibility will be important to us in the future." 🏛️

Appointment in National Organizations



Vincent D. Pellegrini, MD

Vincent D. Pellegrini, MD, James Lawrence Kernan Professor and Chair, Department of Orthopaedics, was elected to the position of second president-elect of the American Orthopaedic Association (AOA) during its 120th annual meeting in June in Asheville, N.C. Pellegrini's term as second president-elect is scheduled to continue through the AOA's next annual meeting to be held in Quebec City, Canada. He will assume the role of AOA president in June 2009 and continue to June 2010. Founded in 1878, the AOA is the oldest national orthopaedic association in the world and the home of academic orthopaedics. Its mission is to identify, develop, engage and recognize leadership to further the art and science of orthopaedics.



Jill Whitall, PT, PhD

Jill Whitall, PT, PhD, department of physical therapy & rehabilitation science, was elected president of the North American Society for the Psychology of Sport and Physical Activity. The society consists of

approximately 600 members, primarily from departments of kinesiology but also from departments of physical and occupational therapy, who study the motor control, motor learning, motor development and psychological factors of non-disabled and disabled populations. This is a three-year term that rotates through president-elect, president and past president.

Anita Kishore, MD, assistant professor, department of psychiatry, received a three-year appointment, from October 2007 through October 2010, to serve as a member of the American Academy of Child and Adolescent Psychiatry Work Group on Training and Education

Thomas MacVittie, PhD, professor, department of radiation oncology and program in oncology, was appointed by the secretary of the Department of Health and Human Services to serve a three-year appointment on the inaugural National Biodefense Science Board. He is one of 12 voting members.



Thomas MacVittie, PhD



Meredith Bond, PhD

Meredith Bond, PhD, professor and chair, department of physiology, was named president-elect of the Association of Chairs of Departments of Physiology.

professor, department of neurology, was elected to membership in the American Neurological Association.

Paul A. Welling, MD, professor, department of physiology, was appointed to the editorial board of the *Journal of Biological Chemistry*.



Walter Royal, MD

Walter Royal, MD, associate

SwimEx Clinical Research Grant for her study entitled "Role of Aquatic Exercise in Breast Cancer-Related Lymphedema Management."

Anthony Harris, MD, MPH, department of epidemiology & preventive medicine, received the annual Society for Healthcare Epidemiology of America Mentor Scholar Fund Award. Only one award is made per year.



Paula Richley Geigle, PT, PhD



Marcelo Sztejn, MD

Marcelo Sztejn, MD, professor, department of pediatrics and center for vaccine development, was elected as a standing member of the National Institute of Allergy and Infectious Diseases Microbiology,

Infectious Diseases and AIDS Initial Review Group/ Microbiology and Infectious Diseases Research Committee (MIDRC). The MIDRC is responsible for reviewing K08, K22, K23, K24, K25, K99/R00, T32 and T35 applications. Sztejn will serve in this capacity from August 16, 2007, to June 30, 2011.

Richard Colgan, MD, associate professor, department of family & community medicine, was nominated as one of 42 physician faculty members for the 2007 Association of American Medical Colleges (AAMC) Humanism in Medicine Award. Members of the Organization of Student Representatives at the University of Maryland School of Medicine submitted the nomination for Colgan, singling him out as



Richard Colgan, MD

Award & Honors

Paula Richley Geigle, PT, PhD, assistant professor, department of physical therapy & rehabilitation science, received the 2007 Richard Ruoti Award for Scholarship from the American Physical Therapy Association Aquatic Physical Therapy Section. She was also named recipient of the section's \$5,000

a positive and caring role model among the medical school's entire faculty and as a physician whom students would like to emulate. The AAMC's intent, through the humanism award, is to advance the ideals of humanism in medicine, including compassion, understanding and partnership, by recognizing and celebrating the achievements and contributions of humanistic physicians.

Events, Lectures & Workshops



Laure Aurelian, PhD

Laure Aurelian, PhD, professor, department of pharmacology & experimental therapeutics, presented the keynote address at the 14th Japanese Herpes Virus Infections Forum in August 2007.

Aurelian's presentation was entitled "Herpes Simplex Virus (HSV)-Associated Erythema Multiforme (HAEM): a Viral Disease with Inflammatory and Stem Cell Components." Sponsored by GlaxoSmithKline, the event was attended by approximately 250 of basic and clinical scientists.

Roy Bechtel, PT, PhD, assistant professor, department of physical therapy & rehabilitation Science, presented "Multifidus Muscle Inhibition during Cycling in a Patient with Lower Back Pain" at the 6th Interdisciplinary World Congress on Low Back and Pelvic Pain in Barcelona, Spain, in November.



Roy Bechtel, PT, PhD

Kenneth H. Butler, DO, associate professor, **Bob Corder, '96**, assistant professor, **David A. Jerrard, MD**, associate professor,

Robert L. Rogers, MD, assistant professor, **Andrew M. Milsten, MD**, clinical assistant professor and **Terry Mulligan, MD**, volunteer assistant professor all from the department of emergency medicine, were invited speakers and attended "Emergency Medicine in the Developing World," the inaugural conference sponsored by the Emergency Medicine Society of South Africa, held in Cape Town in October 2007. Corder was also a member of the conference's organizing committee. Additionally, Butler and **Amal Mattu, '93**, associate professor, department of emergency medicine, attended The Fourth Mediterranean Emergency Medicine Conference in Sorrento, Italy, in September 2007. Butler moderated a panel on airway management and presented a lecture on rapid-sequence intubation. Mattu served as co-chair of the cardiovascular resuscitation track and led a pre-conference workshop on advanced electrocardiographic interpretation.

Timm-Michael L. Dickfeld, MD, PhD, assistant professor, department of medicine,



Timm-Michael L. Dickfeld, MD, PhD

presented "Real-Time Computed Tomography (RT-CT) for Guidance of Catheter Navigation, Transseptal Puncture and Anatomically Targeted Radiofrequency Ablation" and "Integration of True Three-Dimensional Scar

Maps Simultaneously Displaying the Left Ventricular Anatomy (Derived from CT) and Left Ventricular Scar (Derived from PET) into a Clinical Mapping System to Guide Ventricular Tachycardia Ablations" at the American Heart Association Scientific Meeting in Orlando in November 2007. Additionally, Dickfeld presented "Scar Substrate Characterization for Ventricular Tachycardia Using PET/CT" at the Northwestern Cardiovascular Young Investigators Forum 2007 in Chicago.

Howard Eisenberg, MD, professor and chair, department of neurosurgery, was an invited speaker at the 5th scientific meeting of the Neurorehabilitation and Reconstructive Neurosurgery Committee of the World Federa-



Howard Eisenberg, MD

tion of Neurosurgery. A meeting of the International Society of Neurosurgery, Reconstruction, and Neurosurgery, held in September 2007. The meeting was held in China.

Anita Kishore,

MD, assistant professor, department of psychiatry, chaired a workshop entitled "The Resident as Teacher: Building Skills for Residency and Beyond" at the American Academy of Child & Adolescent Psychiatry annual meeting in October 2007. Additionally, Kishore co-chaired a workshop entitled "Ambassadors in Training: Psychiatry Resident Educators" at the Association for American Psychiatry

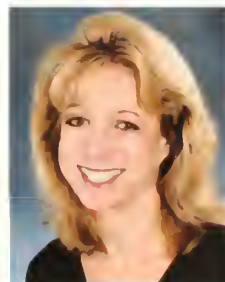
annual meeting in September 2007.

Nancy Ryan Lowitt, MD, EdM, FACP

associate dean for faculty affairs & professional development, and assistant professor, department of medicine, chaired the Association for American Medical College's (AAMC) Group on Educational Affairs (GEA) Continuing Medical Education (CME) national meeting in November and moderated a GEA focus session on "Transitions



Nancy Ryan Lowitt, MD, EdM, FACP



Wendy Sanders, MA

in CME." Lowitt is also chair for the AAMC GEA CME Section. Additionally, Lowitt along with **Wendy Sanders, MA**, assistant dean for faculty affairs & professional development, presented "How to Design, Teach, and Track Outcomes of Grant Writing Workshops Beyond the Dog and Pony Show" at the same AAMC conference in November.

faculty

Dean L. Mann, PhD, professor, department of pathology and program in oncology, was a speaker at the International Symposium on Cancer Biology in New Delhi, India, in November 2007. Mann presented "Intratumoral Injection of Immature Dendritic Cells: An Immunotherapeutic Approach to Cancer Treatment."



Mandeep R. Mehra, MD

Mandeep R. Mehra, MD, Herbert Berger Professor, Department of Medicine, presented a research abstract titled, "Transforming Growth Factor- γ Polymorphisms and Prediction of Clinical Outcome

with Prophylactic Defibrillator Implantation in Chronic Heart Failure" at the American Heart Association scientific meeting in Orlando in November 2007. Additionally, Mehra served as annual scientific program chairman at the Heart Failure Society of America's annual meeting in Washington, DC, in September 2007. He will also chair the 2008 scientific meeting of the Heart Failure Society of America, to be held in Toronto.



Hugh E. Mighty, '82, FACOG, MBA

Hugh E. Mighty, '82, FACOG, MBA, associate professor and chair, and **Jenifer Fahey, MSN, CNM, MPH**, assistant professor, both from the department of obstetrics, gynecology & reproductive

sciences, presented "The Use of Simulation in Training for Obstetric Emergencies" at the 2007 American College of Obstetricians and Gynecologists Annual Clinical Meeting in San Diego.

Kamal D. Moudgil, MD, PhD, associate professor, department of microbiology & immunology, organized and co-chaired a workshop entitled "Heat-shock Proteins: Inflammatory Versus Regulatory Attributes" at the 13th International Congress of Immunol-



Kamal D. Moudgil, MD, PhD

ogy held in Rio de Janeiro, Brazil, in August. During the same conference, Moudgil also gave a presentation on "Pro-inflammatory Cytokines and Antibodies Induced in Response to Heat-shock Protein 65 Serve as Media-

Toni Pollin, PhD, assistant professor, department of medicine, presented "The Interaction between Dietary Fat and Genes in Cardiovascular Risk," which included results from a genome-wide association of postprandial triglyceride levels, at an invited symposium at NAASO, the Obesity Society's 2007 annual scientific meeting in New Orleans.



Toni Pollin, PhD

Thomas M. Scalea, MD, Francis X. Kelly Professor of Trauma Surgery, Department of Surgery, and director, program in trauma, presented the 33rd William T. Fitts Lecture at the 66th Annual meeting



Thomas M. Scalea, MD

of the American Association for the Surgery of Trauma (AAST) in Las Vegas in September 2007. Scalea's talk was entitled "Optimal Timing of Fracture Fixation: Have We Learned Anything in the Last 20 Years?" The Fitts Lecture is considered to be among the most prestigious lectures in the field of trauma care and is presented once a year at the AAST meeting. William T. Fitts, MD, was considered one of the first pioneers in trauma care around the world.

Because of his dedication and service to the organization, the Fitts Lecture was established by the AAST in 1974

Alan R. Shuldiner, MD

John Whitehurst Professor of Medicine, presented "Pharmacogenomics of Antiplatelet Agents," which included results from a genome-wide association of aspirin response,



Alan Shuldiner, MD

at an invited symposium at the 2007 Annual Meeting of the American Heart Association in Orlando.

Marcelo Szein, MD, professor, department of pediatrics and center for vaccine development, chaired the Special Emphasis Review Panel ZAI SR-M (SI) entitled "Respiratory Infections and Host Immunity" at the National Institute of Allergy and Infectious Diseases in June 2007. Additionally, Szein participated as an external reviewer for the Career Investigator Awards/Michael Smith Foundation for Health Research in British Columbia, Canada in March 2007.

Jordan E. Warnick, PhD, professor, department of pharmacology & experimental therapeutics, and assistant dean for student education & research, co-chaired a symposium entitled "Integrated Strategies in Pharmacology Education: Simulation, Case- & Team-Based Approaches" at the annual meeting of the Federation of American Societies for Experimental Biology/American Society for



Jordan E. Warnick, PhD

Pharmacology and Experimental Therapeutics (ASPET) in Washington, DC, in May 2007. His talk was entitled "Lecture-based Approach to Pulmonary Pharmacology." Warnick is the chair of the division of pharmacology education for ASPET

Grants & Contracts



Claire M. Fraser-Liggett, PhD

Claire M. Fraser-Liggett, PhD professor, department of medicine, and director of the institute for genome sciences, received a five-year \$2.9 million award from the National Institutes of Health

as part of a P01 project based at Washington University in St. Louis entitled "Metagenomic Studies of the Gut Microbiomes of Obese and Lean Twins." This grant represents collaboration between Fraser-Liggett, Jeffrey Gordon, MD, from Washington University in St. Louis and Robin Knight, PhD, from the University of Colorado at Boulder. This work will provide new information on the role of the microbial flora in the gut in regulation of energy balance in humans.

Bradley K. McConnell, PhD assistant professor, department of physiology, received a five-year \$1,902,600 research grant from the National Heart, Lung and Blood Institute entitled "Targeted Disruption of Beta-Adrenergic Signaling to Increase Cardiac Contractility."

Alan R. Shuldiner, MD John Whitehurst Professor, Department of Medicine, and Fredric Wondsford, MD, chief of the division of metabolism at Johns Hopkins Children's Center, received a five-year \$7.4 million award from the National Institutes of Health (NIH) to establish the Baltimore Diabetes Research and Training Center. The Baltimore center will be one of five sites funded by the NIH.

Soren Snitker, MD, PhD assistant professor, division of endocrinology, department of medicine, received a five-year \$2,971,000 RO1 research award from the National Institute of Diabetes and Digestive and Kidney Diseases to determine the genetic underpinnings of why

some people do not respond to thiazolidinediones, a frequently prescribed class of diabetes drugs.

Eugene D. Albrecht, PhD professor, department of obstetrics, gynecology & reproductive sciences, and director of the center for studies in reproduction, received a five-year \$3.04 million competitive renewal award for project years 26 through 30 of his National Institutes of Health RO1 HD 13294 grant. The study focuses on the role of estrogen on placental vascular development and fetal growth during nonhuman primate pregnancy. Additionally, Albrecht received a non-competitive renewal award of \$1.01 million for project year 2007 to 2008 of his National Institutes of Health U54 HD36207-6-10 grant. This is a Specialized Cooperative Centers Program in Reproduction and Infertility Research (SCCPRIR) grant entitled "Multidisciplinary Program in Female and Male Reproduction." Co-Investigators on the grant are **Graham Aberdeen, PhD** assistant professor, and **Thomas Bonagura, PhD** research associate, both from the department of obstetrics, gynecology & reproductive sciences; **Robert D. Koos, PhD** professor, department of physiology, is project leader; **Gloria E. Hoffman, PhD** professor, department of anatomy & neurobiology, is cell morphology core leader.

Igor Lukashevich, PhD associate professor, department of medicine and institute of human virology, received a three-year \$1.4 million grant from the National Institute of Allergy and Infectious Disease. The grant will further Lukashevich's research at the institute of human virology into a recombinant Yellow fever 17D-Lassa vaccine. Yellow fever and Lassa fever are viral hemorrhagic fevers endemic to West and Central Africa



Igor Lukashevich, PhD

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Loren Thompson, PhD associate professor, department of obstetrics, gynecology & reproductive sciences, received a four-year \$1.33 million competitive renewal RO1 grant from the National Institute of Heart, Lung and Blood. This award is entitled "Fetal Hypoxemia and Endothelium-Derived Nitric



Loren Thompson, PhD

Oxide" and will study the effect of intrauterine hypoxia on fetal organs. 

Medical and Research Technology: Fulfilling a Healthcare Need

Around the clock each day medical technologists, also called clinical laboratory scientists, provide vital information to physicians. They do so by performing a variety of laboratory procedures which range from identifying microorganisms to providing blood for emergency transfusions. These professionals are trained in clinical chemistry, hematology, immunology, microbiology, blood banking, and laboratory management. They are dedicated to providing test accuracy, quality of work and patient confidentiality.

The first class of medical and research technologists graduated in 1971 from a program offered in the department of pathology. Twenty years later, the medical and research technology program blossomed into a self-sustaining department to meet a critical and growing health care need. Today, the department of medical and research technology (DMRT) is the largest accredited medical technology program in the state of Maryland, and confers both undergraduate and graduate degrees. With over 1200 graduates working in hospitals, clinics, laboratories and research institutions throughout the state and across the country, the DMRT at the University of Maryland School of Medicine is educating the best and the brightest for this dynamic field and positions graduates for additional career development.

"As with many of the allied health professions, there is a tremendous shortage of medical technologists," says **Sanford Stass, MD**, interim chair of the DMRT and chair of the medical school's department of pathology. "This best kept secret of a profession needs to be publicized exponentially in order to properly staff all the areas of healthcare that these individuals satisfy. The demand is great, and the opportunities are endless."

Students who are pursuing the bachelor of science degree enter the program in their junior year and may specialize in either the medical technology track or biotechnology research track. In addition to lecture



and laboratory instruction, students in both tracks complete externship training. Students who are obtaining their master of science degree choose between a biomedical research track or laboratory management track which can lead to other professional careers.

The DMRT offers an accelerated one-year categorical certificate program for individuals who already possess a BS degree in a basic

science area, such as chemistry or biology. **Deirdre DeSantis-Parsons, MS**, program director and assistant professor in the DMRT explains, "People don't realize the possibilities that graduates of our programs have available to them. For example, we developed the state's first bachelors program in biotechnology research. We have students doing externships and graduates working in pharmaceutical companies, government, academic research and biomedical laboratories as well as the development and production of diagnostic products and pharmaceuticals."

Considering that the state of Maryland is one of five major areas for biotechnology in the nation, the opportunities locally are astounding. "We are working hard to recruit individuals into this multi-faceted field by getting out into the high schools and the community at large," says **Kimberly Walker, PhD**, graduate program director and a graduate of the DMRT. "We have so much to offer here in terms of an education and a career by being a part of the medical school. And in the spirit of the mission and vision, we have an obligation to the citizens of Maryland and beyond."

For more information about the DMRT, please call 410-706-7664 or email DMRTInquiries@som.umaryland.edu. 



Sanford Stass, MD

advancement

Madden Steps Down as Development Head



Patrick Madden, associate dean for development at the medical school since 2002, has accepted a position as executive director of development for the Archdiocese of Baltimore.

Over the past six years Madden was responsible for dramatically expanding the office of development,

resulting in significant increases in philanthropic revenues each year and the successful completion of a \$200 million capital campaign.

"This was an exceptionally difficult decision for me and very personal," Madden says. "I hold this institution very near and dear to my heart—its mission and all the people. But this unique opportunity arose whereby I can now give back to my faith."

Recruited to the medical school from the University of Maryland University College, Madden eagerly worked to realize SOM dean Donald E. Wilson's goal of raising \$200 million in private philanthropy to coincide with the school's bicentennial anniversary. In order to achieve the campaign goals and to position the institution for future successes, Madden recognized the critical role that alumni would play. "I will truly miss the great relationship that I have forged with Larry Pitrof and the Medical Alumni Association. The

alumni here stay actively involved, and their efforts make a profound difference," offers Madden.

Madden designated resources and staff for stewardship and development communications, penetrated the expanding base of grateful patients, and worked with faculty and staff to foster a greater culture of philanthropy. "Pat's legacy is the sound infrastructure he leaves to this institution and his successors," says interim associate dean and longtime colleague, Dennis Narango.

Upon Madden's arrival at the medical school, there were only four professionals in place and modest emphasis placed upon philanthropy. "We added some exceptional professionals, and our efforts have started to impact the institution's mission areas in exciting ways," Madden concludes. "I am honored to have led the development efforts throughout the past six years, and I anticipate similarly exciting challenges in my new position with the Archdiocese."

Segals Establish Neurology Professorship

Clair Zamoiski Segal and Thomas H. Segal are known to many for their devotion to the arts and their advocacy in healthcare. Because of their passion to fight Parkinson's disease and their desire to identify the best possible treatment for those impacted, they chose to establish an endowed professorship bearing their names. This extraordinary gift recognizes the expertise and commitment of the physicians within the department of neurology and also highlights the accomplishments of one of the school's premier movement disorders experts, Stephen Reich, MD.

Through their commitment and leadership, Reich will be inducted as the inaugural Clair Zamoiski Segal and Thomas H. Segal Professor in Parkinson's Disease. Reich, who joined the faculty in 2002, is nationally recognized for his exemplary service to patients, his excellence as a clinical researcher, and for the integral role he has played in the education of medical students and neurology residents. The Department of Neurology is at the forefront of discovery in the battle to conquer a wide variety of neurological disorders and is one of the top 10 programs nationwide in research funding

for a variety of neurological diseases. The Maryland Parkinson's Disease and Movement Disorders Center offers comprehensive and expert diagnostic, medical, surgical and rehabilitative services for patients with Parkinson's disease and related disorders.

"We are profoundly grateful to the Segals for their generosity and leadership," says William J. Weiner, MD, professor and chairman of the department of neurology. "This professorship will enable our most skilled experts to take advantage of those areas where need and opportunity are greatest, both now and for generations to come." 🏠

On the Heels of MS

ALUMNUS PROFILE:

Donald H. Gilden, '63



Gilden from the
1963 Terra Mariae
Medicus



DONALD H. GILDEN, '63, knew the moment he touched the dying man's cold hand he wanted to become a doctor. He was just five years old when he made his decision. His

grandfather had taken him to visit a friend who was dying of congestive heart failure and was surviving in an oxygen tent. Young Gilden was under strict orders not to disturb the man, but he disobeyed his grandfather slipping his hand under the tent. The old man squeezed the boy's fingers and told him stories about his grandfather.

"After that day I never stopped talking about it," says Gilden, professor and chairman of the department of neurology and professor of microbiology at the University of Colorado School of Medicine. "I was going to be a doctor when I grew up. I never wanted to do anything else."

Gilden, age 70, has indeed made his mark on the profession. He is recognized as a pioneer in the field of neurovirology for groundbreaking work relating to shingles and multiple sclerosis (MS).

After nearly 150 years of medical speculation, Gilden discovered that varicella zoster virus—the virus that causes shingles—is latent in human ganglia. More than a million people a year suffer from shingles, and his work helped lead to a shingles vaccination.

He has also been working to track down the virus he believes causes MS, a disease that affects about a quarter of a million people in the United States. But this has been far more challenging. Yet Gilden is focused on what he wants to accomplish and understands that it will perhaps take the rest of his life, or even longer, to reach answers. "You have to be patient," he says. "Science goes little by little. Progress is little by little."

For his work, Gilden has received an alumni award for distinguished service from the University of Chicago School of Medicine, the International Society for NeuroVirology Pioneer Award, and, in May, he will receive the Medical Alumni Association's Honor Award and Gold Key, presented for outstanding medical accomplishments and distinguished service to mankind.

A neurologist by training, Gilden sees patients who suffer from migraines, multiple sclerosis, Alzheimer's, stroke, and Parkinson's. "I will see anyone," he says. "Clinical neurology has always been one of my first loves."

But most of his time is spent in the lab conducting research in the microscopic world of DNA, RNA, viruses, and proteins. "Sometimes

in the lab my head is spinning because we have big things going on," Gilden says.

As a boy growing up in Baltimore, Gilden's world revolved around school and working summers in the family business, Sam Gilden & Son, a wholesale store that supplied hair tonic, razor blades, bobby pins, toothpaste, and other items to local drug stores. He unloaded trucks, packed orders, swept floors, and, when he was old enough, made deliveries in a bright red Dodge delivery truck. His father saw him taking over the business one day, a task which demanded hard work and long hours. "We never had dinner with my father," Gilden recalls. "The wholesale business was a tough business."

Gilden's real "job" was to go to school, and he excelled in biology, chemistry, and math. Classes in foreign language, however, barely held his interest. "For me the language of medicine was all I ever cared about," he says.

He graduated from Dartmouth College in 1959, and moved back home to go to medical school. Gilden interned at the University of Illinois Hospital in Chicago, and did his residency in neurology at the University of Chicago Hospitals.

It was in the late 1960s while he was a staff neurologist in the U.S. Army at Walter Reed Army Medical Center in Washington, D.C., that he became interested in research. After seeing patients during the day, he had time to catch his breath in the evening and mull over the amazing research underway. Researchers had discovered that measles virus in the brain could cause chronic encephalitis, and that Jakob-Creutzfeld disease—a "degenerative" brain disorder in humans—was infectious.

"I said to my wife, 'I think I want to do a fellowship in infectious diseases,'" recalls Gilden, who was 32 at the time. "She looked at me like she married a crazy man."

He was accepted at the Johns Hopkins University School of Hygiene and Public Health as a postdoctoral National Institutes of Health fellow. After about three years, he joined the faculty at University of Pennsylvania and set up a lab at the Wistar Institute in Philadelphia to find the virus that causes MS.

He worked closely with MS patients who lived in a chronic care facility and were ravaged by the disease. Gilden asked if they would donate their brains after death to his research because he was looking for the cause of MS. Sometimes his phone rang in the middle of the night and within an hour Gilden was harvesting brain from their skulls. "I had my own saw," he says.

He studied 24 brains over eight years, but never found the MS virus. So, he turned his attention to vari-

cella zoster virus, which causes chickenpox in children and shingles in adults. Nobody had ever isolated the virus, and if he could prove it was there he believed he could use the same technique to find the MS virus.

He tore into his work mapping the viral genome in human ganglia along the entire nervous system. In 1983, he proved for the first time that the virus was latent in ganglia and "reawakens" causing shingles. The shingles virus causes pain and even stroke if it makes its way to the brain.

Gilden found several other diseases caused by the virus, such as zoster sine herpete, or shingles without the rash. His discoveries led to more work for his team.

Gilden left the University of Pennsylvania in 1985 to become professor and chairman of the department of neurology at the University of Colorado School of Medicine and professor of microbiology.

At the University of Colorado, 15 members of Gilden's team are working on varicella zoster virus and MS. They harvest ganglia collected from an autopsy room. "We go there every day," Gilden says. "If it is a good case we will go as far as we have to. We even get specimens from Japan."

MS has been a hard case to crack, but Gilden seems to be making progress. The common theory is that MS is autoimmune. The body's immune response attacks a protein that is normally in the brain. The attack is so violent and persistent that the brain is destroyed in the process.

"We don't think that is the case at all," Gilden says. "Even now we have evidence that it is not autoimmune." He argues that in people with MS who have increased amounts of an antibody called immunoglobulin G (IgG), in their brain and spinal fluid, the IgG is directed against an infectious agent, but nobody is quite sure at what agent it is directed.

He and his team are looking for footprints of virus in MS. "We are writing a paper showing that the immune response in MS is not against a self (auto) protein," he says.

While he is busy with his research, Gilden, who is married and has three adult sons, skis and plays the violin—a 1779 Guadagnini. He is also quick to tell a joke.

Gilden would like to find out what causes MS and how to prevent varicella zoster virus from reactivating. He is unfazed by the fact that his research into MS and varicella zoster could take the rest of his life. "It's exciting," Gilden says. "I feel privileged." 📖

student activities



Becca Wright, Amie Gupta, Kevin Carter, Amy Tracy, Ian Loper, Lei Jiang, Matt Fanelli, and John Hardcastle

Class of '09 Treated to Bull & Oyster Roast

The atrium in Medical School Teaching Facility was again the site for the annual bull and oyster roast for the third year medical class. Despite busy schedules with rotations and cold and snowy weather, nearly two-thirds of the class of '09 turned out for the event. Students and several faculty were treated to an array of fine foods in addition to the traditional stations of carved roast beef and oysters. The event was held on Wednesday, December 5.

Sophomores Enjoy Social at Waterfront Hotel

Two-thirds of the second-year class enjoyed a reception at the historic Waterfront Hotel in Fells Point on January 10. The annual event is always scheduled during the first two weeks of the new year shortly after students return from the holiday break. Students were treated to drinks and a host of hors d'oeuvres during



Sanam Razezghi, Kathy Shahrokh, and Kyle Hatten

the three-hour party, sponsored by the MAA. The building housing the hotel was constructed in 1771 as a private residence and is the second oldest brick building in the city of Baltimore. It became a tavern in 1861 and was converted into a restaurant in 1955.

Randall, '57, Haskins Reflect on Historic OB/GYN Residency

Fifty years ago, Maryland hired its first African-American resident in obstetrics and gynecology. The appointment of Louis L. Randall, '57, was made by chairman Arthur L. Haskins, MD.

The two physicians reflected on their experiences February 12, invited back to campus by Maryland's Student National Medical Association. Randall, now retired, praised Haskins for his bold leadership, while Haskins—now 91 years old—simply insisted that Randall's qualifications made him a logical choice. The mini-reunion was facilitated by Theodore C. Patterson, '62, who discovered that Haskins had moved back to Baltimore after retirement in the 1990s. Haskins, who became chairman of the department in 1955, departed to the Medical College of Georgia in 1980. Also attending the event was Elijah Saunders, '60, Maryland's first African-American resident in internal medicine. 🏛️



Arthur L. Haskins, MD, and Louis L. Randall, '57

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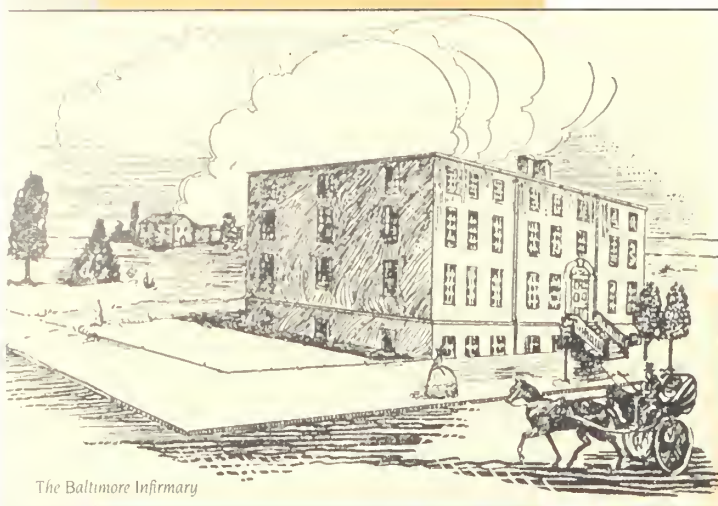
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185 Years Ago



The Baltimore Infirmary

In 1823, Maryland became the first medical school in the U.S. to build its own hospital for clinical instruction. The 60-bed infirmary was financed by the faculty at a cost of \$14,109 and required \$2,520 for furnishings.

90 Years Ago

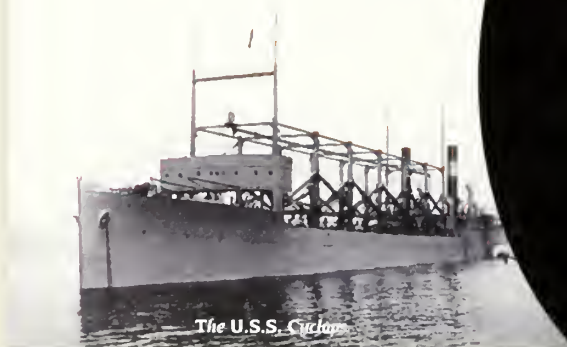


Dr. Krantz administering his Fluoromar.

In 1918, Burt J. Asper, class of 1911, was the ship's surgeon for the U.S.S. Cyclops when it mysteriously vanished in the Bermuda Triangle. The auxiliary ship was delivering coal to Navy Warships and was last seen departing Rio de Janeiro for Baltimore. The ship was never found.

55 Years Ago

In 1953, Dr. John C. Krantz Jr., a pharmacologist and head of Maryland's department of pharmacology, introduced Fluoromar—trifluoroethyl vinyl ether—the first fluorinated anesthetic. Fluoromar and other halogenated anesthetics that followed allowed patients to be deeply anesthetized with precise concentrations of a potent, nonflammable (unlike ether) anesthetic.



The U.S.S. Cyclops



Burt J. Asper, Class of 1911

recollections

A look back at America's fifth oldest medical school and its illustrious alumni

1930s **1937:** James Frenkil of Baltimore reports that he's still here! **Lawrence Perlman** of Chicago shares his thoughts below.

1940s **1943D:** Augustus H. Frye Jr. of Lookout Mountain, Tenn., continues to work at age 91. **Luis M. Isales** of Boca Raton, Fla., wishes hap-

Recollections from Lawrence Perlman, '37

On November 26, 2007, I attended the MAA reception during the annual meeting of the Radiologic Society of North America. I was an internist, not a radiologist, but was invited because I live in Chicago where the meeting was held. The group consisted of alumni, faculty, and former students of the radiology training program. During the meeting reminiscences flooded my thoughts, and I recalled many events which transpired more than 70 years ago when I was a student.

One in particular was fresh in my mind, since I was back in Baltimore last May for my 70th reunion which coincided with both the medical school's bicentennial celebration and the Preakness Stakes. We were too involved with reunion activities to visit Baltimore's famous race track, but it did bring to my mind a memorable day during medical school.

It was during senior year, and my section was scheduled for a clinic at a hospital near Pimlico. I and two classmates piled into my Model T Ford and drove toward the hospital. The combination of a beautiful day and our proximity to the race track made the three of us reluctant to attend the clinic. Pooling together our meager resources we had sufficient funds to gain admission to the track and enough remaining to bet on the first race. We knew little of the relative merits of the horses entered in race one, but by consensus we bet on one that hit the board—whether it was first, second, or third I do not recall, but we did collect our original bet and a few extra bucks. Holding out a couple of dollars with which to bet on the next race, we used the excess to buy hot dogs and beer for the three of us. Amazingly, this pattern continued throughout the afternoon: bet on a winner and regale ourselves with sandwiches and beer between races. How we managed to continue selecting winners with such consistency is hard to imagine, but we were able to do so. At the end of the afternoon we drove back to school flushed with joy and filled with beer, soft drinks, and food (and with the money we had when we started the day). I couldn't tell you what we missed, but I don't think it made much impact on our medical knowledge or ability to care for patients. As for the memory of our day at the races, it lingers for both me and at least one of my companions.

At the 15th reunion of the class of 1937, one of my fellow race track companions was present. He introduced me to his wife and her immediate response was: "Is this one of the guys?"

Some memories last forever!



piness and a healthy year in 2008 to all of his classmates. **1944:** Warren D. Brill of Chevy Chase, Md., is teaching third-year students at George Washington University Medical School. **Michael R. Ramundo** retired to Sea Isle City, N.J. **1946:** John C. Rawlins of Seaford, Del., proudly reports that he was the first to be inducted into the physicians hall of fame at Nanticoke Memorial Hospital in 2005. **Milton Reisch** and wife Rashi spend summers in Yonkers, N.Y., and winters in Plantation, Fla., since Reisch's retirement. They recently became great-grandparents with the birth of Ethan Lewis Reisch Clark. **Frank A. Shal-**
lenberger of Tucson, Ariz., continues to work two days each week as a medical consultant to the department of economic security for the State of Arizona. He also writes devotionals for his church. **1947:** David K. Geddes of Santa Ana, Calif., recently enjoyed a fascinating, 12-day trip to China with his 27-year-old grandson. They visited a number of cities including Beijing and Xian where they viewed the Terra Cotta Soldiers. **Jose G. Valderas** of Keller, Tex., is involved in medical missions in his retirement. He has fond memories of his medical school days and three years of training at Maryland. **1948:** Benjamin K. Silverman of Seal Beach, Calif., received the Jim Seidel Award for Distinguished Service in the Field of Pediatric Emergency Medicine at the American Academy of Pediatrics national conference in San Francisco last October.

1950s **1950:** H. H. Bleeker Jr. of San Pedro, Calif., is on his second pacemaker, continues working eight to 10 days each month, plays a lot of golf, and enjoys travel. He hopes to see his classmates at the 60th Reunion in 2010. **1951:** Dorris M. Harris of Los Angeles is retired and enjoying it! **Eugene B. Rex** of Winter Park, Fla., keeps in touch with classmates **Henry Perry** and **Kathleen McGrady**. He reports that the weather in Winter Park is beautiful. **1952:** William R. Greco of Greenbelt, Md., sadly reports the passing of wife Doris on August 4, 2007. **1954:** Jean M. C. O'Connor of Baltimore is consulting with the Social

Security Administration in Woodlawn after closing her office in June 2007. **Marshall A. Simpson** of Columbus, Ga., sadly reports that wife Barbara died on October 29, 2006, after a lengthy illness with heart and kidney failure. **1957: Harvey R. Butt Jr.**, of Annapolis, Md., reports that he is thankful to enjoy good health as the oldest living member of his class. **1958: Lewis H. Richmond** of San Antonio continues performing stand-up comedy and gives presentations on the humor of aging. He practices psychiatry part-time. **1959: Robert J. Dawson** of Cumberland, Md., continues practicing pediatrics with the Children's Medical Group.

1960s **1960: Jerome Ross** and wife Ruth of Baltimore have six grandchildren: Ethan, Julia, and Daniel in New Mexico; Maya in Baltimore; and Amelia in Manhattan with their step-grandson Nester III. Son-in-law actor Nester Serrano II appeared in the movie *Definitely Maybe* which debuted in February. **1961: Robert A. Fink** of El Sobrante, Calif., reports that his article, "Medical Liability Issues in Dealing with Critical Care Patients in the End-of-Life Situation," was published in *End of Life Communication in the ICU: A Global Perspective*. The book reflects experiences and recommendations from medical professionals throughout the world. His wife Ilene L.

Dillon, MSW, also has an article in the book entitled "Emotions in the Intensive Care Unit." Fink maintains a consulting practice in neurosurgery and is clinical professor of neurological surgery at the University of California, San Francisco. Fink is a frequent contributor to internet lists, blogs, and other media related to neuroscience and other contemporary subjects. He celebrated his 70th birthday on January 17. **1963: Edward C. Werner** and wife Georgia of Washington, D.C., enjoyed a Caribbean cruise in January with classmate **Chris Tountas** and wife Rose. **1964: Henry H. Bohlman** of Shaker Heights, Ohio, was awarded the Nicholas Andry Award for Lifetime Achievement in Orthopaedic Spine Surgery. Bohlman is professor of orthopaedic surgery at Case Western Reserve University School of Medicine. **1966: Jay Martin Barrash** of Houston continues working hard to save for the education of his one year-old son. **Louis E. Grenzer** and wife Jeanne of Cockeysville, Md., have six children and nine grandchildren. Grenzer practices with Midatlantic Cardiovascular Associates at Sinai, St. Joseph's, and GBMC hospitals. **David J. Steinbauer** of Grottoes, Va., recently underwent major lumbar spinal fusion and reports that he is now very mobile. This summer he's planning to drive with his 18-year-old son from Virginia to Alaska. **1968: Alice Susan Tannenbaum**

of New York City continues doing research in breast and cervical cancer. One daughter is an attorney in Boston, while the other is a field botanist in the Pacific Northwest. Tannenbaum and husband Douglas have a second home in Sarasota, Fla., but are only slowly dragging themselves toward retirement. **1969: John A. Eaddy** of Knoxville, Tenn., continues to work two days per week and, as an emeritus professor in family medicine, is still teaching, preaching, and practicing intensive management of diabetes. **Marvin J. Gordon** is chief medical officer for Phoenix Health Plan in Phoenix, Ariz.

1970s **1970: Henry A. Lewis** of Santa Fe, N.M., has owned Gunstock Hill Books, a rare book store, since retirement in 2004. **1971: Robert J. Neborski** of Del Mar, Calif., will be in Warsaw, Poland, in August to present his method of attachment-based dynamic psychotherapy to the Polish Psychological Society. **Joel Shlian** and wife **Deborah**, '72, of Boca Raton, Fla., proudly announce the release of *Rabbit in the Moon*, their most recent novel. The two practiced together in a large multispecialty group before returning to UCLA for MBAs. Since then they have balanced medical management consulting with writing. Two of their earlier novels have been optioned for Hollywood

Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Medicine Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

films. **1972: Sumner H. Goodman** of Loudonville, N.Y., is practicing psychiatry at the Stratton VA Medical Center in Albany. He is forever grateful to Maryland for accepting him into the school. **1974: Michael H. Hotchkiss** and wife Judy of Potomac, Md., are proud grandparents of Samuel Ray, born November 30, 2007. **Dawn V. Obrecht** of Steamboat Springs, Colo., continues practicing addiction medicine and enjoys outdoor activities such as skiing and hunting. **1975: Walter B. Hettinger** of Lutherville, Md., reports that his son is chief resident for emergency medicine at Strong Memorial/University of Rochester after graduating from its medical school in 2005. **Thomas F. Krajewski** of Towson, Md., is medical director of Integra Health Management. **Stephen H. Pollock** of Reisterstown, Md., proudly reports that son Jeremy is a first-year medical student at Maryland. **1976: Harry Knipp** of Reisterstown, Md., reports that daughter Katy works at JP Morgan in New York City

where she specializes in asset management for private wealth after receiving an MBA from Duke University. **1977: Marc S. Bresler** and wife Barbara of Encino, Calif., are empty nesters now that daughter Sarah is attending Johns Hopkins and son Noah is studying cognitive science at the University of California, San Diego. Barbara is attending the Ziegler School of Rabbinic Studies at the American Jewish University in Los Angeles. Bresler is in his 10th year as a hospitalist and his 20th year of teaching family medicine residents in Kaiser Foundation Hospitals throughout the state. **Richard J. Feldman** of Lanham, Md., married Nancy Walter on September 28, 2007. **1978: Pamela G. Krah** and husband Larry Crawford have relocated to a small ranch in San Luis Obispo, Calif., where they have three horses. **Harvey S. Mishner** of Bradenton, Fla., has added a fourth physician to his primary care practice and will be looking to add a fifth. **Jessica J. Radcliffe** and husband John Nielsen of Midlothian, Va.,

proudly report that son Eric graduated from Harvard University with a degree in economics and mathematics. **Lornel G. Tompkins** of Midlothian, Va., is medical director of the respiratory department and high observation unit at Kindred Hospital in Richmond. **1979: Philip Barr** of Newbury Park, Calif., is the full-time physician at the California Health and Longevity Institute. **Glenn Koteen** has relocated to Bend, Oreg., where he continues his private gastroenterology practice.

1980s: 1980: Mehtap Atagun Aygun and husband Cengiz of Baltimore purchased a waterfront home on Longboat Key near Sarasota, Fla., where they hope to soon retire. They are awaiting daughter Talia's graduation from high school, while son Jake is an analyst and vice president at Ponder & Co., and daughter Serra is in law school. Classmates vacationing in the area are welcome to visit. **Charita Hoyle** of Bronx, N.Y., reports that

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The Hilton Family

she is a single parent raising two wonderful children—Skye, who graduates in May from the Ethical Culture Fieldston Schools and plans to attend Spelman College in Atlanta; and TS Michael Parr, a thriving seventh grader at the Mary McDowell Friends School. Hoyle is enrolled in the executive masters of public health program at Columbia University and expects to complete her studies in 2009. For the past six years, she has been director of ambulatory adult psychiatry at Harlem Hospital/Columbia University. She has been a board officer of Columbia for the past 19 years and is set to retire next year. **Paul E. Whittaker** of Gig Harbor, Wash., reports that daughter Lisa, an officer in the U.S. Army stationed in Iraq, will be married in July. **1981 David C. Miller** of New Ulm, Minn., continues practicing with a multispecialty group in southern Minnesota and is medical director of substance abuse treatment services. He has three sons and two stepsons with four in college and one in high school. He misses his old medical school friends.

1982: Charles Carroll IV of Winnetka, Ill., is associate professor of clinical orthopaedic surgery at Northwestern University Feinberg School of Medicine and continues practicing hand and orthopaedic surgery in Chicago. Daughters Brooke and Emilie have completed studies at Vanderbilt University while son Charlie is a junior at Woodberry Forest School in Orange, Va. **1983: Abraham Auerbach** has an ophthalmology practice in Jerusalem called The Jerusalem Eye Care Center. Wife Judy is a tour guide, and they would be happy to welcome classmates in Israel as well as arrange a tour of the country. **Edward B. Bolgiano** of Lutherville, Md., a captain in the U.S. Navy Medical Corp., was on assignment in Iraq with the 1st Marine Division. **Milton S. Sniadach Jr.** of Englewood, Colo., cruised down the Nile and entered the Great Pyramid at night during a trip last November. **1985: Michael J. Hallowell** of Sewell, N.J., continues cycling and last year rode in Chile, Argentina, Singapore, and Israel. Hallowell is chair of the department of

radiology at Drexel College of Medicine. **1986: Lisa A. Scheinin** of Redondo Beach, Calif., has been traveling for adventure, butterflies, and increasing her roller coaster count. In addition to visiting Russia and China, she rode Peru's only roller coaster and was granted a visa to visit North Korea where she also received coaster credits. North Korea, she reports, was strange but exhilarating. **1988: Stephen J. Katz** of Arnold, Md., practices internal medicine in Severna Park and is chairman of internal medicine at Ross University School of Medicine on the island of Dominica. **Gavin E. Rose** of Washington, D.C., plans to develop a full-time practice in forensic psychiatry following completion of a one-year fellowship at Georgetown University Hospital.

1990s: 1991: Marjorie K. Warden of Woodstock, Md., is a fellow of the American College of Surgeons. **1995: Susan Boyd** of Baltimore reports that husband Gaston Padilla was granted permanent residency in America. **Ramona Daryani** of Omaha, Neb., enjoys part-time internal medicine practice and is preparing for a re-certification exam. Daughter Catherine and son Robert are busy with basketball, violin, and Nintendo, as Catherine is in her second year with the Omaha Area Youth Orchestra. **Lamont Smith** of Ellicott City, Md., has joined Critical Care Associates at Frederick Memorial Hospital and remains on the part-time faculty at Shock Trauma. **Vinay Thohan** of Lewisville, N.C., is director of heart failure transplantation at Wake Forest University. He and wife Jeanne have two children, Jaya, age nine, and Amara, age four. **1997: Riba Kelsey-Harris** and husband Raynal announce the birth of Jabari, their second, on October 22, 2007. **Brian Newcomb** and wife Celeste of State College, Pa., announce the birth of Alexandra, born October 10, 2006. She joins sister Maryann, age eight, and brother William, age six. The family plans travel to Nicaragua this spring on a medical mission. **Matthew Zmurko** of Rutland, Vt., specializes in spine surgery at the Vermont Orthopaedic Clinic of the Rutland Regional Medical Center. **1998:**



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133rd Reunion



Friday, May 2

8:30–10:30 am	Open House, Check-in & Continental Breakfast
9:00–9:45 am	Financial, Retirement, & Estate Planning
10:00–11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am–1:15 pm	133rd MAA Luncheon and Business Meeting, Westminster Hall
1:30–3:00 pm	14th Annual Historical Clinicopathological Conference
1:30–3:30 pm	Afternoon Check-in, Davidge Hall
3:30–4:30 pm	School of Medicine Tour
6:30–9:30 pm	The MAA Crab Feast, Baltimore Museum of Industry

Saturday, May 3

8:00 am–1:30 pm	Open House & Check-In
8:30–10:00 am	Continental Breakfast, Davidge Hall
9:00 am–1:00 pm	Excursion to the World War II Memorial, Washington, DC
10:00–11:00 am	Campus Walking Tour
10:00–12:00 noon	Visiting Egypt at The Walter's Art Museum
11:30 am–1:00 pm	Baltimore City Land & Sea Tour I
11:30 am–2:00 pm	Complimentary Picnic, Davidge Hall
1:00–1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00–2:30 pm	Baltimore City Land & Sea Tour II

Afternoon/Evening Class Reunions (years ending in "3" and "8")

Sunday, May 4

10:00 am–1:00 pm	Brunch with the Dean, The Reginald F. Lewis Museum of Maryland African-American History & Culture
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Medical Alumni Association • May 2–4, 2008


Joseph Martinez and wife **Lisa**, '96, of Elkridge, Md., are expecting their third child soon, who will join brothers Nicholas and Dylan. Joe splits his time at Maryland between ER and the office of student affairs. ♦ **Megan O'Brien** of San Antonio, Tex., is working part time in pediatrics while enjoying being a mom to Michael, age six, Emma, age four, and Connor, age two. She and husband Seth invite classmates to look them up while visiting Alamo City. **1999: Janine A. Blackman (MD/PhD)** of Baltimore is opening The District of Columbia Executive Wellness Program in June. Since 2006, she has served as medical director

of the Gilbert Clinic in North Bethesda.

♦ **Mallory Williams** of Canton, Mass., is completing his MPH in health policy and public health.

2000s: 2002: Steven B. Ingle of Rochester, Minn., plans to return to Alaska this summer, joining a gastroenterology practice. ♦ **Scott M. Katzen** is completing year two of a cardiology fellowship at Maryland. He and wife Iodi live in Columbia, Md., with son Andrew and their dog Bailey. **2003: Chilembwe Mason** of New York City published *Essential Emergency Procedures*. **2004: Kristin**

Patzkowsky of Setauket, N.Y., begins a fellowship this summer in minimally invasive gynecologic surgery at the University of Michigan following completion of her OB/GYN residency at Stony Brook University Hospital. **2006: Leah Corson** of Atlanta married David Jones on April 14, 2007, in Miami.

Faculty: J. Laurance Hill, MD former head of the medical school's division of pediatric surgery is president of the Maryland chapter of the American College of Surgeons. 

John P. Sakowski, '37
Little Falls, N.J.
November 2, 2007

Dr. Sakowski practiced OB/GYN in Bayonne, N.J. Appointments included head of obstetrics at Bayonne Hospital where he also served as a trustee, police surgeon, and president of the Hudson County Medical Society. He was preceded in death by wife Margaret.

Patrick C. Phelan Jr., '42
Baltimore
January 10, 2008

Upon graduation, Dr. Phelan interned and received residency training in surgery at Mercy Hospital where he served as chief surgical resident for two consecutive terms because of a wartime shortage of surgeons. In 1946, he opened a private practice in general and occupational surgery. Appointments included staff physician at Towson State University and associate instructor in Maryland's department of anatomy from 1946 to 1951. In the department of surgery he also taught students assigned to Mercy Hospital, an appointment he held into the 1970s. Phelan retired in 1983. He enjoyed reading, gardening and working with stained glass. He was preceded in death by wife Ann and is survived by five children and six grandchildren.

Herbert B. Copeland Jr., '44
Naples, Fla.
January 7, 2008

Following graduation, Dr. Copeland interned at D.C. General Hospital and received residency training in radiology at Baltimore City Hospital and the VA Hospital in Bronx, New York. In 1951, Copeland joined the staff at Franklin Square Hospital, serving as president of the medical staff from 1970 to 1972. He established a private radiology practice in 1960 where he continued until retirement in January 1993. Copeland served on the faculty at both Maryland and Johns Hopkins and was a past president of Franklin Square's foundation, assisting in the hospital's move to Baltimore County in 1970. He also helped develop a radiology technology training program at Essex Community

College. Upon retirement he moved to Naples. Copeland enjoyed golf, tennis, and bridge, and he is survived by wife Jeanne, one son, one daughter, one stepson, three stepdaughters, two grandsons, and four step-grandchildren. He was preceded in death by wives Myra and Elaine.

Donald W. Mintzer, '44
Towson, Md.
February 1, 2008

Dr. Mintzer decided to become a doctor at the age of nine after almost dying from complications of an appendectomy. He interned at Maryland before joining the U.S. Army and was stationed in Korea where he worked in a M.A.S.H. unit. Mintzer completed military service but remained as a captain in the Reserves until 1963. Returning to Maryland, he opened a private practice in general and internal medicine and served on the staffs of St. Agnes, Good Samaritan, GBMC and Church Home and Hospital where he was chief of staff. Mintzer was also a mentor for Maryland medical students in family practice. He provided free physicals for Boy Scouts and athletes in the Hamilton Optimist Recreation Program, and he volunteered at public clinics. In 1995, he reported that he was still practicing 30 hours per week without being "managed," but he retired in 1996 rather than accept the federal requirement that he use a computer in his practice. Mintzer enjoyed music, poetry, sailing, and fishing. He is survived by wife Gladys, five children, 12 grandchildren, and five great-grandchildren.

John R. Hankins, '48
Baltimore
January 1, 2008

Upon graduation, Dr. Hankins stayed at Maryland for a two-year rotating internship, a four-year residency in general surgery, and a two-year residency in thoracic/cardiovascular surgery. From 1954 until 1956, he served as a captain in the U.S. Army Medical Corps and was stationed in Iran. After being discharged, he returned to Iran on behalf of a secular organization to perform and teach surgery from 1957 to 1962. After receiving board certification in thoracic surgery, Hankins worked for five years as

director of general surgery and head of the residency training program in surgery at Avicenna Hospital in Kabul, Afghanistan. He returned to Baltimore in 1969 and was an attending on Maryland's faculty in thoracic surgery specializing in esophageal cancer until 1986. After retirement, Hankins again traveled to Afghanistan with the International Assistance Mission, serving in Kabul as a consultant and teacher in surgery. He returned to Baltimore for the final time in 1996 to hold a part-time position as regional representative for Interserve/USA, an international, interdenominational Christian mission organization. While on the faculty at Maryland, Hankins was a participant in the Medical Alumni Association annual phonothon in Davidge Hall, and he was a member of the Silver Circle of the John Beale Davidge Alliance, the school's society for major donors.

Nicholas Mallis, '48
Timonium, Md.
January 5, 2008

Dr. Mallis remained at Maryland for his internship year after graduation. Residency training followed at Walter Reed Army Hospital where he went on to serve as assistant chief of urology, work he later admitted was the most memorable of his life. Mallis returned to Baltimore, operating a private practice in Southwest Baltimore and serving on the staff at St. Agnes Hospital, where he rose to chief of urology and president of the medical staff. He was also a urology consultant at Maryland General Hospital and an attending physician at Bon Secour Hospital. Mallis retired in 1987 and enjoyed golf, reading, and traveling. He was preceded in death by wife Jean and is survived by two sons and four grandchildren.

Lillian K. Ziegler, '49
Leesburg, Va.
September 12, 2006

Dr. Ziegler interned at USPHS in Norfolk, Virginia, and received residency training in pediatrics at Children's Hospital in Washington, D.C. She served her entire career as a staff physician in the department of pediatrics at Walter Reed Army Medical Center, and received a 40-year civil service

in memoriam

award. Ziegler enjoyed cooking, and she was preceded in death by husband John.

Jay C. Gore, '52

Reno, Nev.

November 20, 2007

Dr. Gore served in the U.S. Army during World War II prior to medical school and met his future wife while stationed in England. Upon graduation from medical school, he interned at Riverside Hospital in Toledo and completed residency training in radiology at Harbor General Hospital in Torrance, California. He worked at the Sierra Nevada Medical Center from the 1960s until retirement at the age of 60. During this time he enjoyed riding his motorcycle to his office and to various hospitals. After retirement he moved to a rural environment in Nevada to enjoy riding and roping. He and wife Lilian had seven children and enjoyed their 22 grandchildren and 13 great-grandchildren.

Herbert W. Lapp, '52

Berkeley Springs, W.Va.

January 21, 2008

Bon Secours Hospital was the site of Dr. Lapp's training, and he later received fellowship training at the American College of Sports Medicine. He practiced family and sports medicine in Baltimore, serving as president of the medical staff at Bon Secours during the mid 1970s. Lapp earned a certificate of distinguished citizenship from Maryland governor Marvin Mandel and a letter of commendation from U.S. president Richard Nixon in 1970. He retired from private practice in 1983 and served as medical advisory for Maryland disability and rehabilitation service until 1999 when he retired to Berkeley Springs. Lapp enjoyed gardening and fishing, and he and wife Lorraine had three children and two grandchildren.

Norton Spritz, '52

New York City

November 21, 2007

Dr. Spritz received training at the Cornell Medical Division of Bellevue Hospital in New York City and joined Rockefeller

University as an associate professor in 1961. In 1969, he was named professor of medicine at New York University School of Medicine and chief of the medical service at the New York Veterans Administration. His research centered on cholesterol metabolism and later on biochemistry and diabetic neuropathy. But during the 1980s, Spritz became involved with issues of law and medicine fueled by the AIDS epidemic, and in 1987, he received a law degree from Fordham University. Spritz retired from the VA in 1998 but continued as a consultant at NYU, focusing on issues of law and ethics as they applied to medicine. He also held an adjunct faculty position at Fordham University School of Law. In 2002, he received the Medical Alumni Association's Honor Award Gold Key, presented for outstanding contributions to medicine and distinguished service to mankind. Spritz enjoyed the opera and attending concerts. He is survived by wife Suzon, one daughter, and two granddaughters, and he was preceded in death by his first wife Marilyn, a psychiatrist.

John R. Wilkinson, '52

Winston Salem, N.C.

January 25, 2008

Dr. Wilkinson attended the University of North Carolina School of Medicine for two years before completing his medical education at Maryland. He served in the Korean War and then practiced internal medicine in Man, West Virginia. Wilkinson later served at the Veterans Administration Hospital in Fayetteville, North Carolina, retiring in 1991. He was preceded in death by wife Pauline and is survived by one stepson.

William N. Karn Jr., '53

Falmouth, Maine

February 12, 2008

Bon Secours Hospital was the site of Dr. Karn's internship, followed by residency training in psychiatry at Spring Grove State Hospital. His career was devoted to psychiatric administration, as he served as superintendent and medical director of the Wyoming State Hospital in Evanston for 28 years. Karn was a distinguished life

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fellow of the APA and maintained an active membership with the Shriners. He retired to Falmouth, Maine, to be with family. Karn was preceded in death by wife Louise and is survived by five children, 13 grandchildren, and four great-grandchildren.

William Sterling, '55

Rockville, Md.

December 12, 2007

Dr. Sterling practiced pediatrics in Bethesda, Md., before relocating to Palm Beach Gardens, Fla., where he continued working until retirement several years ago.

Ralph T. Hummel, '56

Olympia, Wash.

December 7, 2007

Dr. Hummel interned in Dearborn, Michigan, and received residency training in psychiatry at the Menninger Foundation in Topeka, Kansas. Upon completion of training, he moved to Sedro-Woolley, Washington, to work at Northern State Hospital on a National Institute of Mental Health-funded research program, and a few years later relocated to Bremerton where he cofounded the Olympic Center, Washington's first community mental health center. Hummel moved to Olympia in 1969 where he maintained a private practice until retirement in 2003. In addition to private practice, he worked with Lewis County Mental Health Center, Grays Harbor Mental Health Center, Maple Lane School, and the Shelton Corrections Center. At the end of his career, Hummel focused on assisting Vietnam Veterans suffering from post-traumatic stress disorder. Self-taught in stringed instruments, Hummel enjoyed playing the fiddle, banjo, guitar, mandolin, and viola in local bands. He enjoyed studying philosophy, ancient history, astronomy, and progressive politics. Survivors include wife, Betty, a therapist who continues his work, and three children.

Stanley Z. Felsenberg, '59
Baltimore
February 23, 2008

Dr. Felsenberg practiced family medicine in Baltimore and was also deputy medical examiner for Baltimore County. He was a member of the Maryland Air National Guard and in 1984 was promoted to colonel, assigned to the 136th Combat Support Hospital. He was active in the Masonic Fraternity for more than 25 years, serving as national chairman of Americanism for National Sojourners. In 1991, Felsenberg was honored by the Scottish Rite, awarded the Degree of Inspector General Honorary for the 33rd Degree along with actor Ernest Borgnine and U.S. senator Alan K. Simpson of Wyoming. Felsenberg is survived by three daughters and four grandchildren.

Thomas Moshang Jr., '62
Blue Bell, Pa.
February 24, 2008

Dr. Moshang was a senior physician and former chief of the division of endocrinology at The Children's Hospital of Philadelphia (CHOP). He was also an emeritus professor of pediatrics at the University of Pennsylvania School of Medicine. Moshang spent 25 years of his career at CHOP and Penn as a distinguished clinician, investigator, and educator. His work in the areas of growth failure and endocrine complications in long-term survivors of childhood cancer was world renowned. Moshang was president-elect of the Lawson Wilkins Pediatrics Endocrine Society. He is survived by wife Dr. Mary Anne Gazdick, four children, and five grandchildren.

Jean M. Jackson, '67
Waban, Mass.
January 31, 2008

Dr. Jackson interned and received residency training in medicine at Maryland before serving a research fellowship in medicine at the Robert B. Brigham Hospital in Boston from 1970 to 1972. She returned for a chief residency in medicine at Maryland from 1972 to 1973, before serving as chief of Maryland's division of rheumatology from 1973 to 1975. Jackson returned to Boston

where she began a clinical practice at Brigham Hospital, becoming the institution's first female rheumatologist. This was followed by a clinical and teaching career at the hospital and joining the rheumatology program at Children's Hospital in Boston in 1980. In 2005, she was recognized as an outstanding clinician educator by the hospital's department of medicine, and she also received the Arthritis Foundation Marian Ropes Physician's Achievement Award. Jackson was vice president of the Massachusetts Arthritis Foundation and physician advisor to Scleroderma Association of Massachusetts.

Robert B. Craven, '70
Fort Collins, Colo.
June 7, 2006

Dr. Craven's specialty was internal medicine and infectious disease, and he served an infectious disease fellowship at the University of Virginia from 1973 to 1975. He held several positions with the Federal Centers for Disease Control and Prevention in Fort Collins, including head of the yellow fever-spotted fever section. He was author or co-author of several articles on pathogenic microbial agents.

Edwin H. Preston, '99
Silver Spring, Md.
March 4, 2008

Dr. Preston received residency training in surgery at Georgetown University Hospital and served a fellowship there in abdominal transplantation. He was selected in consecutive years as the outstanding resident teacher, and he was co-author of several peer review and invited publications. He is survived by wife Mamie and two sons.


Faculty

Marcia Schmidt, MD
Aurora, Colo.
January 1, 2008

Dr. Schmidt, whose specialty was arthritis and rheumatic diseases, was an assistant professor of medicine in the division of

rheumatology and staff physician at the campus health services from 1973 until 1988. Born in Denver and raised in Boulder, Schmidt earned a bachelor's degree in medical technology from the University of Colorado, before receiving an MD from the University of Florida Medical School in Gainesville in 1967. She arrived at Maryland for internship and residency training in internal medicine, followed by a one-year fellowship. As an assistant professor of medicine in the division of rheumatology, she taught physical diagnosis and rheumatology courses and in 1984 was acting director of the division. She also maintained a private practice at Good Samaritan Hospital. During the 1980s, Schmidt was named to the State of Maryland Governor's Commission on Arthritis and Related Diseases. She enjoyed cross-stitching, knitting, and playing bridge. Schmidt is survived by husband John Baratta and one son.

Benjamin F. Trump, MD
Baltimore
February 26, 2008

Dr. Trump was chairman of the department of pathology from 1970 until retirement in 1998. He was born in Kansas City, Mo., earning a bachelor's degree from the University of Missouri and medical degree from the University of Kansas where he interned and received residency training in pathology. He received additional training at the University of Washington School of Medicine in Seattle. Trump served on the faculties at the University of Washington and Duke University before joining Maryland in 1970. He worked with R Adams Cowley in developing the research program at Shock Trauma, and he ushered in the fields of electron microscopy, immunohistology, human cell and tissue culture, and computer science into the forefront of pathology for both research and patient care at Maryland. Trump later established the medical school's first doctoral program in pathology, and he was author of more than 300 scientific papers. Trump was a concert pianist and enjoyed fishing and photography. He is survived by wife Elizabeth, two daughters and a grandson. Two other marriages ended in divorce. 



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Women Physicians in Maryland Exhibit Opens in Library

Last year Maryland's Health Sciences Library played host to a traveling national women physicians exhibit, focusing on the history of women in medicine. A new display, located on the library's first floor, centers on the history of women physicians in Maryland. It includes University of Maryland alumnae, including Theresa Snaith, our first female graduate in 1923, and Catherine N. Smoot-Haselnus, '85, the first female president of the Maryland State Medical Society. The exhibit runs through June 18.



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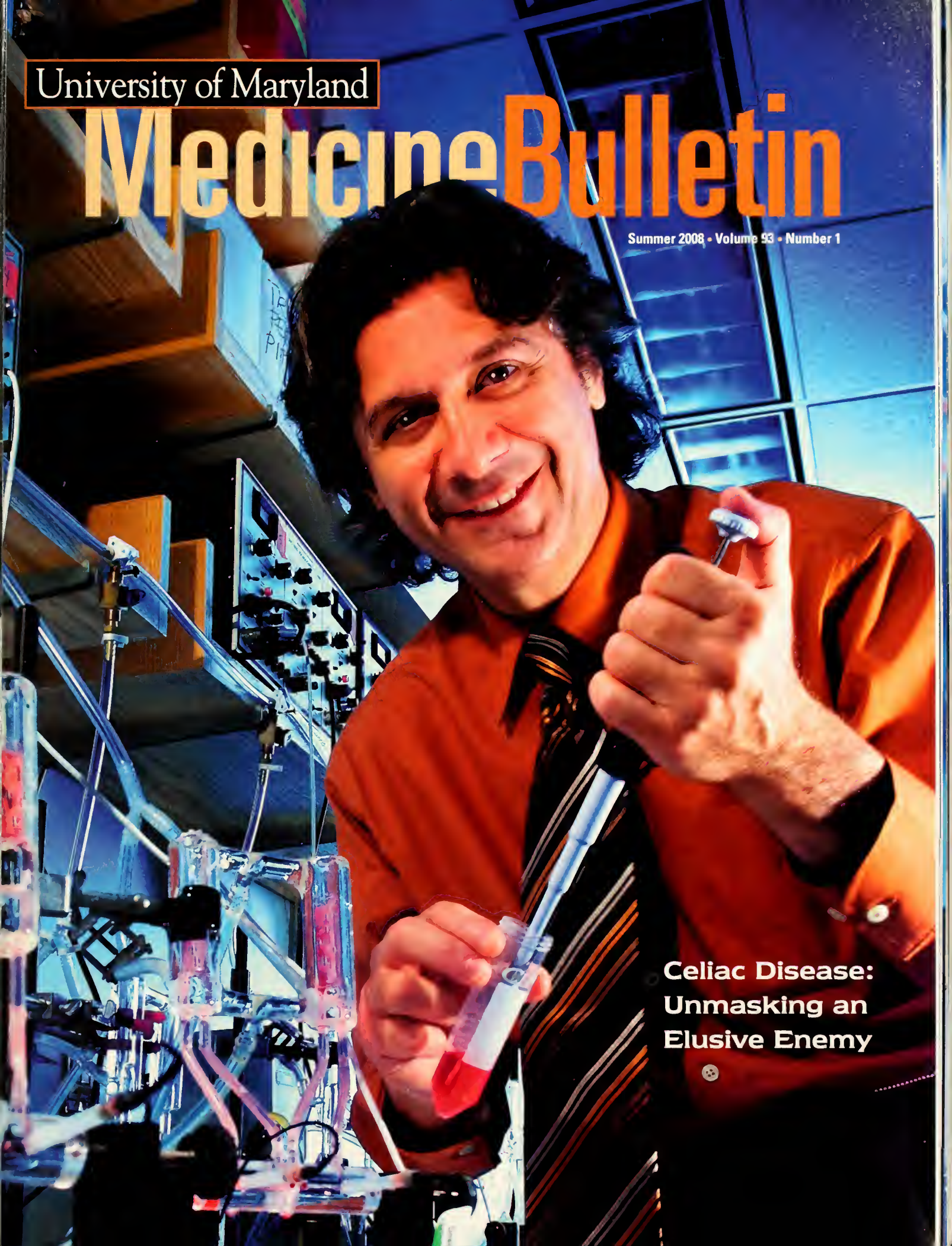
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Medicine Bulletin

Summer 2008 • Volume 93 • Number 1

**Celiac Disease:
Unmasking an
Elusive Enemy**





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University of Maryland Medical Alumni Association & School of Medicine



Celiac Disease: Unmasking an Elusive Enemy 8

Alessio Fasano, MD, arrived at the University of Maryland from Italy in the 1990s when celiac disease was believed to affect no more than one in 10,000 people in America. The professor of pediatrics, medicine, and physiology, who directs the medical school's center for celiac research, initiated a campaign to educate Americans about the disease as well as to develop new methods to treat it. Fasano's research has shown that the disease actually affects one in every 133 Americans, and his work has led to a greater understanding of the ailment, food labeling and, hopefully in the not-too-distant future, a more effective treatment.



The 133rd Medical Alumni Association Reunion 12

More than 800 alumni, faculty, students, and guests turned out for the annual reunion in spring. Highlights of the three-day event included an awards luncheon, historical clinicopathological conference, crab feast, a brunch with the dean, and class reunion parties.

Alumnus Profile: Nelson H. Goldberg, '73 34 Rebel with a Cause

As a youngster, Nelson H. Goldberg, '73, was a fan of TV characters Ben Casey and Jim Bronson. One was an idealistic surgeon, and the other an ex-newspaperman who helped people while riding cross-country on a motorcycle. There is a piece of each of these characters in Goldberg. As professor of plastic and reconstructive surgery at Maryland, he has devoted himself to helping the less fortunate. He also likes to ride fast bikes.



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Recently, Congress passed the Genetic Information Nondiscrimination Act (GINA), which prohibits health insurance companies and employers from using genetic information in determining insurance eligibility or in hiring, firing, or promotion decisions. GINA will likely dramatically increase the public's willingness to undergo genetic testing, and, in the process, accelerate the unlocking of the promise of the Human Genome Project, which finished sequencing all three billion base pairs of all 23 human chromosomes in 2003.

The University of Maryland School of Medicine is poised to take full advantage of the fruits of the Human Genome Project. Our new institute for genome sciences (IGS), which will be featured in an upcoming issue of the *Bulletin*, is dedicated to applying genomic information to the advancement of human health. This institute, which is headed by preeminent genome scientist and microbiologist **Claire M. Fraser-Liggett, PhD**, will have an eventual staff of about 150 and a research budget of up to \$40 million.

Closely allied with IGS are several existing genetics and genomics programs in the medical school. One is the program in genetics and genomics, led by **Alan R. Shuldiner, MD**, an endocrinologist nationally known for his work in the molecular basis and genetics of type 2 diabetes, obesity and insulin resistance. Shuldiner directs a large multidisciplinary team of investigators working to translate advances in the understanding of human genetics and genomics into practical approaches for preventing and treating a range of diseases.

The other program with strong ties to IGS is our cardiopulmonary genomics program, led by **Stephen Liggett, MD**, an internationally recognized researcher who studies how naturally occurring genetic variations affect susceptibility to heart disease and asthma and response to drugs. Researchers in Liggett's program will benefit from the tools and methodologies being developed by IGS researchers to better tailor drug treatment regimens.

Our global medicine research projects also will benefit greatly from these outstanding genomics resources and experts. For example, our institute of human virology (IHV), headed by internationally recognized AIDS researcher **Robert C. Gallo, MD**, is aggressively pursuing the mechanisms by which viruses attack human cells and spread. Understanding a person's genomic makeup may help the IHV researchers better predict how patients will respond to viral infections and treatments.

Similarly, researchers at our center for vaccine development (CVD), headed by world renowned infectious disease and tropical medicine expert, **Myron M. Levine, MD, DTPH**, will benefit by better understanding how a person's genetic makeup affects his/her immune response to a particular vaccine. CVD investigators develop and test vaccines for a wide range of infectious diseases that affect millions of people throughout the world.

Supporting the work of genetics and genomic researchers throughout the campus are the division of biostatistics and the program in bioinformatics in the school's department of epidemiology and preventive medicine. In addition, genomic researchers campus-wide have access to the school's state-of-the-art biopolymer/genomics core facility, providing advanced DNA sequencing and sophisticated gene analysis support. Soon, we will be able to examine a person's entire genome, or at least a large portion of it, and make individualized diagnoses and treatment decisions based on one's unique genetic profile.

My vision is to have the University of Maryland School of Medicine become one of the leading centers in the country for genomic medicine. We boast unsurpassed expertise and technology not only in genome sciences but also in our ability to translate genomic information into better diagnostic tests and targeted therapies for conditions that affect patients worldwide. Thanks to GINA, we can now accelerate that process and look forward with great anticipation to this type of personalized medicine becoming a reality in the not-too-distant future. 🏠



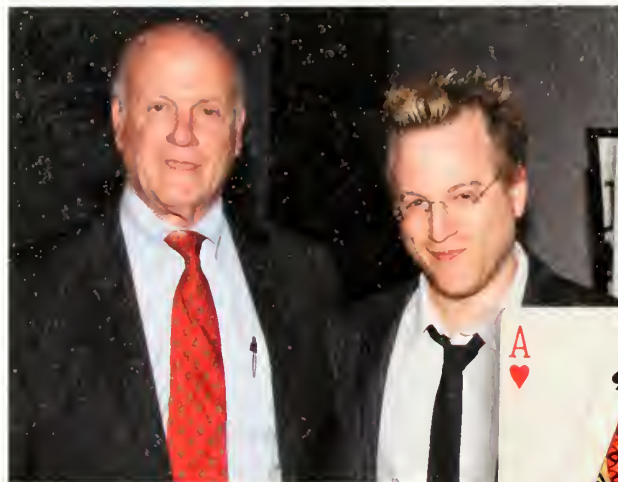
E. Albert Reece, MD, PhD, MBA
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[Save the Date!]

E. Albert Reece, MD, PhD, MBA will deliver his opening State of the School Address on Wednesday, September 24, 2008 at 3:00pm at the Medical School Teaching Facility Auditorium in the University of Maryland School of Medicine. A reception will follow. All are welcome!

EVENTS Radiology Offers Unusual Screening

Maryland's department of diagnostic radiology and nuclear medicine periodically stages open house to introduce its new high-tech screening devices to the community. But on March 27 it offered a screening of a different kind: an advance viewing of the movie *21*. More than 100 faculty, staff, and friends of the department were invited to the Charles Theatre just north of downtown to take in the flick and meet author Ben Mezrich, whose book *Bringing Down the House* was the basis for the Hollywood production. Mezrich is the son of **Reuben S. Mezrich, MD**, chairman of the department. At the time of the movie release, his book had spent 59 weeks on the *New York Times* Best Seller List. The drama is about a group of MIT students involved in a Las Vegas card-counting gambit, portrayed in the movie by Kevin Spacey, Jim Sturgess, and Kate Bosworth.



Reuben S. Mezrich, MD, chair of the department of diagnostic radiology and nuclear medicine, with son and author Ben Mezrich

New Research Center for Trauma and Anesthesiology



Thomas M. Scalea, MD

In an effort to further basic, translational, and clinical studies in injury research, the medical school has designated its Charles McC. Mathias National Study Center for Trauma and Emergency Medical Systems as a new organized research center (ORC). With this designation, the new center for trauma and anesthesiology research will

become a world-class, multi-disciplinary research and educational center focusing on brain injuries, critical care and organ support, resuscitation, surgical outcomes, patient safety, and injury prevention. It becomes the school's seventh ORC and is believed to be the first in the nation dedicated exclusively to the study of trauma, its complications, and prevention.

The center has been an international leader in research related to the causes, treatment, and outcomes of traumatic injuries and sudden illness. Its previous studies have been used to improve vehicular safety, to refine patient care, and to develop public education programs for the prevention of trauma.

"We are building on the center's foundation by using added resources enabling it to become a truly world class research program," says **E. Albert Reece, MD, PhD, MBA**, vice president for medical affairs and dean of the medical school. "We are excited by the opportunities this

collaborative effort will bring for faculty and researchers across our campus who have common academic interests in trauma and surgical outcomes."

The new center for trauma and anesthesiology research will encompass the research activities of the medical school's program in trauma and its department of anesthesiology, along with the existing center (established at the school by Congress in 1986). Many of the researchers working in the new center are doctors who care for trauma patients at Maryland's R Adams Cowley Shock Trauma Center.

The new ORC will be led initially by **Thomas M. Scalea, MD**, professor of surgery and director of the program in trauma at the medical school and physician-in-chief at the R Adams Cowley Shock Trauma Center, and co-chair **Peter Rock, MD, MBA**, professor and chair of the department of anesthesiology. A national search is being conducted for a permanent director.

Maryland's other organized research centers are the center for health policy and health services research, the center for integrative medicine, the mucosal biology research center, the center for vaccine development, the center for research on aging, and the center for vascular and inflammatory diseases.



Peter Rock, MD, MBA

EVENTS

Kassell Is 12th Henderson Lecturer in Neurosurgery

Neal F. Kassell, MD, professor of neurosurgery at the University of Virginia, was the 12th annual Henderson Lecturer in Neurosurgery on May 21. Kassell's presentation was entitled "Magnetic Resonance Guided Focused Ultrasound."

In addition to maintaining an active clinical practice specializing in patients with cerebral vascular disease, Kassell's research interests have concentrated on intracranial aneurysms and other causes of stroke, as well as computing and information technology. His current investigative interest is MR-guided focused ultrasound surgery.

The lectureship was established in 1996 by family and friends to honor the memory of neurosurgeon **Charles M. Henderson, '57**. Attending this year's event were Henderson's widow Barbree, son Tom, and **Frederick W. Plugge IV, '57**, classmate, friend, and initiator of the Henderson Fund.



Tom Henderson, Mrs. Barbree Henderson, Frederick W. Plugge IV, '57, Howard Eisenberg, MD, chair of the department of neurosurgery, and Neal F. Kassell, MD, the Henderson Lecturer

Robotic Bypass Better for Patients and Makes "Cents"

Minimally invasive heart bypass surgery using a DaVinci robot means a shorter hospital stay and faster recovery for patients, as well as fewer complications and a better chance that the new bypass vessels will stay open. And, according to a Maryland study, robotic heart bypass surgery also makes good economic sense for hospitals. The study was presented at the American Surgical Association on April 26, 2008.

Using a surgical robot increases the cost of each bypass case by about \$8,000, according to **Robert S. Poston, MD**, a cardiac surgeon formerly at the medical center, who is the lead author of the study. He says those additional expenses, which are due to equipment and supplies, are offset by a shorter hospital stay, reduced need for transfusions and fewer post-surgical complications that would require a patient to be re-admitted to the hospital. Especially with high-risk patients who have lung or kidney disease or other chronic problems, the researchers found that the minimally invasive, robotic approach saves costs.

"These findings are significant because payers are considering linking reimbursement for coronary artery bypass surgery to patient outcomes," says **Stephen T. Bartlett, MD**, professor and chairman of the department of surgery and chief of surgery at the medical center. "Our study shows that there are health benefits to patients from the minimally invasive approach, both in terms of a shorter recovery and also looking at the

function of the bypass graft months after the surgery," adds Bartlett, one of the study's co-authors.

While the DaVinci surgical robot is in widespread use for prostate surgery, the medical center is among only a few hospitals nationwide—and was one of the first in the U.S.—to use the robot to perform multiple vessel heart bypass surgery.

The researchers studied 100 consecutive patients who had minimally invasive coronary bypass surgery using a robot at Maryland. The technique requires no incisions except for a few small holes to insert instruments. These cases were compared to a matched group of 100 patients who had the traditional "open" bypass surgery with a sternotomy, a surgical incision through the sternum.

The average length of the hospital stay for the patients with the minimally invasive surgery was about four days, compared to seven days for the traditional bypass operation; however the difference was even greater among patients considered to be at high risk. In that group, the average stay was five days with robotic surgery compared to 12 days with the traditional technique.


The complication rate for those who had the robotic bypass was also much lower, with 88 percent of patients free of complications after having the minimally invasive surgery compared to 66 percent of those with the "open" operation.

The patients in the study were followed up for one year after their surgery. Using a CT angiography scan, the researchers found that those who had the robotic bypass were much less likely to have narrowing or clots in the bypass graft than those with the traditional bypass surgery from six months to a year after the operation.

"We saw a long-term benefit to patients after their bypass in terms of the patency, or openness, of the bypass graft," according to **Bartley Griffith, MD**, head of cardiac surgery at the medical center and professor of surgery at the medical school. Griffith, also a co-author of the study, says the grafted vessels of more than 99 percent of the patients who had robotically-assisted bypass surgery were still open and functioning well compared to about 80 percent of those who had the "open" operation.

The reason for the difference is that for patients who need multiple bypasses, surgeons can easily access two

internal mammary arteries to use as the new bypass vessels rather than taking a section of vein from another part of the body. In traditional bypass operations, only one internal mammary artery is used, while other bypasses are performed using a vein. The long-term success of the bypass, or patency of the target vessel, is superior with an internal mammary artery versus a vein.

Poston says hospitals have been waiting for data on the costs and benefits of robotic-assisted heart bypass programs before investing in them. "Our conclusion from this study is that robotically-assisted coronary artery revascularization presents quality of life benefits for patients along with financial savings for those hospitals which care for large numbers of high-risk patients," says Poston, who is now chief of cardiac surgery at Boston Medical Center. 



Transitions



Magaziner to Head Epidemiology & Preventive Medicine

In March, SOM dean E. Albert Reece, MD, PhD, MBA, announced the appointment of Jay Magaziner, PhD, MSHyg, as chair of the department of epidemiology & preventive medicine.

A member of the faculty since 1982, Magaziner has served as professor in the departments of epidemiology & preventive medicine, medicine, and physical therapy & rehabilitation science. He developed the division of gerontology in the department of epidemiology & preventive medicine and is co-director of the medical school's center for research on aging.

Magaziner received his doctoral degree from the University of Chicago, where he was a trainee in adult development and aging. He also received a master's degree from the University of Pittsburgh Graduate School of Public Health.

His research work on aging continues in three interrelated areas: the consequences of hip fracture, health and long-term care, and methods for studying older populations. The major focus of his work is to identify ways to enhance function and improve the quality of life for older persons. Magaziner has served as principal investigator on more than 45 research projects and research training projects, and he has published more than 150 papers in peer reviewed journals. He becomes the seventh chair since the department's founding in 1954 by Maurice Pincoffs, MD, and he succeeds J. Glenn Morris Jr., MD, MPH, who headed the department from 2000 to 2007.



Plaut serving as mace bearer during the 2008 pre-commencement convocation

Plaut Retires

S. Michael Plaut, PhD, a member of Maryland's faculty since 1973 and director of a popular orientation program for first-year students, retired in June.

Plaut earned his doctorate in psychology from the University of Rochester in 1969 and in 1988 completed a sex therapy fellowship at Cornell Medical Center. He is certified as both a sex educator and sex therapist, and he directed the medical school's intimate human behavior course for 18 years. His scholarly interests include sexual medicine, psychosomatic medicine, professional-client relationships, research methodology, and student administration. Plaut's numerous publications include a 2004 book on sexual dysfunction for primary care providers, and he has served as editor of the *Journal of Sex Education and Therapy* as well as president of the Society for Sex Therapy and Research.

Plaut's community leadership includes chairmanship of both the Maryland Board of Examiners of Psychologists and the state's task force to study health professional-client sexual exploitation—an area on which he frequently consults on a national level.

His commitment to interdisciplinary collaboration is reflected in his teaching and doctoral committee memberships, which have included students of medicine, physical therapy, medical and research technology, nursing, and social work, as well as residents. From 2004 to 2007, he chaired the advisory committee of the university's health sciences and human services library.

His passion for students was evident in his work in the office of student affairs. For 12 years, he directed the orientation program entitled "Human Dimensions in Medical Education," and from 1997 to 1999, he chaired the campus student affairs council. His activity on regional and national levels includes chair of the Association of American Medical College's northeast group on student affairs.

Plaut plans to continue many of his professional activities from his coastal North Carolina home. He was honored in May by being invited to serve as mace bearer for the medical school convocation and as honorary student marshal for the UMB commencement. 🏛️

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**PLEASE REMEMBER THE UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE
AND ALUMNI ASSOCIATION IN YOUR WILL OR ESTATE PLANS.**

The image is a composite. The lower half shows a man with dark, wavy hair, wearing an orange lab coat over a striped tie, smiling as he works in a laboratory. He is using a white pipette to transfer liquid from a rack into a small vial. The upper half features a complex 3D molecular model of a protein structure, rendered in yellow, green, and blue, set against a dark background.

Celiac Disease

Unmasking an Elusive Enemy

Some observers might say Alessio Fasano, MD, came to this country looking for trouble. As a pediatric gastroenterologist, Fasano treated so many celiac patients in his native Italy that, when he moved to the U.S., he hoped to find a medical landscape where the disease, so prevalent in Europe, was less common. He didn't expect to learn, however, that celiac disease was virtually unknown among the medical community here, as well as by those living with its undiagnosed pain. At the time, the disease was estimated to affect no more than one in 10,000 people. It wasn't listed in the National Institutes of Health (NIH) annual directory of all diseases. In fact, it didn't even earn a mention among those conditions considered rare. So Fasano went looking for it, and indeed it turned out to be the trouble-maker he thought it was.

"This was very puzzling to me," says Fasano, professor of pediatrics, medicine, and physiology, and director of the University of Maryland Center for Celiac Research. "Everything we knew about celiac disease suggested that Americans should be as susceptible to it as Europeans. The genes are similar, and we all eat pasta and other wheat products."

Celiac is an auto-immune disease caused by a genetic predisposition, and by an environmental trigger, gluten, that is mismanaged by the body because of genetic makeup. A third factor is the presence of an intestinal leak, or the ineffective opening and closing of "doors" that help the intestine digest food. All three components—genes, gluten and intestinal leakage—are necessary for the onset of celiac disease. People suffering from the disease cannot eat anything containing wheat, rye or barley. Because the disease affects the small intestine, it manifests itself primarily as a gastrointestinal disorder, causing severe abdominal pain, chronic diarrhea or constipation, stomach distention and weight loss. However, any organ or tissue can be targeted. Children with the disease often suffer growth retardation, pubertal delay, iron deficiency anemia and bone loss. For celiac patients, pain is a constant companion and reminder that, if untreated, their condition can be life threatening—the consequence of malnutrition.

"When I saw that there were no celiac cases in this country, I realized there were two possibilities," Fasano says. "Either it was being overlooked, or there was a third factor preventing the disease-causing interaction between the genes and gluten. My curiosity got the best of me. I had to find out which."

A Search Begins

Curiosity is the driving force behind this former professional swimmer who dives head-first into questions previously untouched by science. In his early days at the university, he contributed an article to the *Journal of Gastroenterology*, asking, "Where Have All the American Celiacs Gone?" He then proceeded to find out.

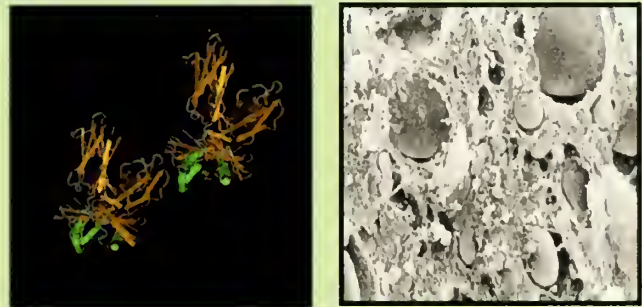
"The scientific community was skeptical to be sure," he says. "There were polite and not-so-polite reactions to the premise that celiac disease might be a more serious problem than was thought. Generally, reactions boiled down to the suggestion that we were wasting our time. It didn't exist."

Under Fasano's guidance, the medical school's center for celiac research was born in 1996. "We soon realized the disease is not a problem that can be handled by a single discipline," he says. "Its complexity demands the collabora-

tion of pediatricians, adult and pediatric gastroenterologists, epidemiologists, immunologists, geneticists, and molecular biologists."

He adds the center attracted top scientists with an intriguing proposition—the opportunity to study the only auto-immune disease for which the trigger was already known. "In science, you seek to minimize the unknowns," he says. "In this case, we had the luxury of beginning with a critical known entity—the identity of the instigator."

The prospect of investigating a disease in which the evolving research might be applied to other auto-immune conditions drew world-class scientists to the center, the first of its kind in the U.S. Epidemiologists were interested in discovering why the disease was prevalent in Europe but not in this country, although all the elements were similar. Molecular biologists wanted to know more about the signaling between gluten and the target cells. The mystery attached to celiac disease became a magnet for interdisciplinary scientific investigation, and so the center was created, founded on one goal—to improve the quality of life for celiac patients and their families.



Crystallography (left) and a scan electron microscopy (right) of gluten, the protein that triggers celiac disease

Diagnosis—A First Step

One of the earliest problems the team encountered was the ineffectiveness of available diagnostic tools. Researchers in the Fasano laboratory developed an improvement on a test that had failed to discriminate between patients with an allergic reaction and those who had the auto-immune deficiency, as well as a later test that was specific but subject to human error. They developed an assay by cloning the human gene for anti-tissue transglutaminase (tTG), and coming up with an accurate and inexpensive, machine-operated test in which a drop of blood changes color to reveal specific antibodies. It is that diagnostic tool that is used routinely throughout the country today. A positive result

must then be confirmed by an endoscopy with biopsy.

Until the advent of the tTG test, the NIH had been reluctant to fund large numbers of celiac studies because there was no reliable indication of prevalence, and no diagnostic tool to use for widespread screening. Using their new procedure, Fasano and his colleagues screened blood samples from 2,000 blood donors, and found the incidence to be, not one in 10,000 as originally thought, but one in 250. To the American scientific community, however, that study, though surprising, would have to be validated by endoscopic follow-up studies, proving the presence of celiac disease. So the team followed it with a study of 13,000 volunteers, some healthy individuals, and others who were symptomatic or had family members with classic celiac symptoms. That study, concluding that one in every 133 Americans has the disease, led to NIH support and assistance in communicating the devastating impact of celiac disease on American lives.

In 2004, largely prompted by papers published by Fasano and others, the NIH convened Consensus Development and State-of-the-Science Conferences on Celiac Disease. The process is the investigative method for evaluating scientific evidence on a given biomedical or public health issue, often for the purpose of resolving a controversy in clinical care. It is an exhaustive examination of fact and theory involving high-ranking objective scientists, as well as those working in a related field. Fasano was one of those addressing the conference, which concluded that celiac disease is "greatly underdiagnosed" and that it affects approximately three million Americans. That became the official position of the NIH, a position that continues to underscore the mission of Maryland's center for celiac research in improving the lives of celiac sufferers.

Frank A. Hamilton, MD, MPH, chief of the digestive diseases program, National Institute of Diabetes and Digestive and Kidney Diseases, NIH, worked with Fasano during the consensus conferences. He says, "Dr. Fasano's tenacity in exploring the real prevalence of celiac disease, and his landmark 2003 paper, have changed medicine's perception of a disease once

considered rare and now known to be common. His work has provided seminal insight to what goes on in the intestines, and has been a catalyst in prompting many other investigators to study this disease."

The Patient's Plight

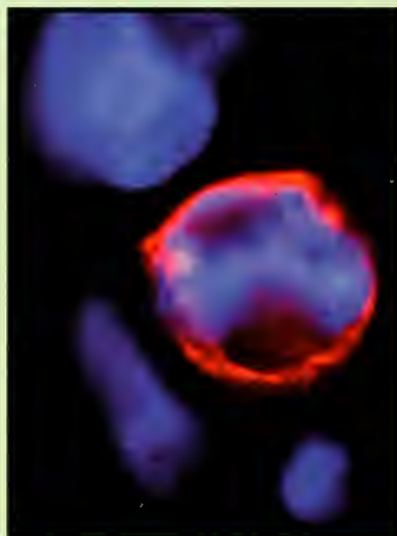
"For years, patients would come to us in desperation," Fasano says. "Many had gone 15 years or more without a diagnosis. Doctors were forced to admit to patients there was nothing they could do for them. Some people were told their illness was psychosomatic. Some had lost hope, and had forgotten what it was not to be sick."

He knew that, for every patient treated in the center's clinic, there were hundreds still struggling to understand the source of their pain, and along with them, hundreds of clinicians who needed the conclusions of NIH-validated research to help guide their patients through the difficult hurdles of celiac disease. Commenting on the consensus findings of NIH, Fasano says that, after years of pushing a snowball uphill, the snowball was finally headed down a slippery slope. Even so, the only treatment available was a rigid gluten-free diet, not an easy course for anyone to follow.

"The diet has to be followed 100 percent," Fasano says. "But for those who stick to it, there are rewards. A few months after beginning a gluten-free diet, a patient's intestinal damage will be completely healed, and there will be no remaining evidence of celiac disease. But the diet is admittedly challenging. All processed foods contain gluten. They are present in sauces, beer, pizza, candies, ice cream, almost every food. For a celiac patient, eating in a restaurant is almost impossible. Even trying to explain one's restrictions to a restaurant's sympathetic chef is risky. A few drops of oil can set off a recurrence of symptoms."

Research and Discovery

While he started off with a goal of determining the prevalence of celiac disease in the U.S., and then to communicating an awareness to patients and the medical community, Fasano



Intestinal cells that express the receptor (in red) that releases zonulin. The nucleus is in blue.

Dr. Fasano's tenacity in exploring the real prevalence of celiac disease, and his landmark 2003 paper, have changed medicine's perception of a disease once considered rare and now known to be common.

His work has provided seminal insight to what goes on in the intestines, and has been a catalyst in prompting many other investigators to study this disease.

There have been impressive milestones in the relatively short life of the center for celiac research, not the least of which is the center's role in spearheading the American Celiac Disease Alliance, resulting in a Congressional food labeling law that makes it easier for patients with the disease to identify safe food items.

now turned his sights to additional research, aimed at the third factor in this baffling disease—intestinal leakage.

"We decided that, if we couldn't remove the genes or the trigger, we would work on that third factor," he says. "We discovered Zonulin, a protein that appears to be involved in many disease states in which leakage occurs in the tight junctions including the gastrointestinal tract. This led us to the belief that it might have an important role in the treatment of celiac disease."

The center has since partnered with Alba Therapeutics, a University of Maryland School of Medicine start-up company located in the UMB Biopark facility, to develop an alternative treatment for the disease, based on the Zonulin discovery. The resulting therapy, for which the university retains intellectual property rights, is currently in Phase II trials, and Fasano is guardedly optimistic that a new treatment soon will be available, negating or reducing the need for a rigidly-controlled gluten-free diet.

For a man whose work allows few hours for relaxation, Fasano still finds time for swimming and tennis, and reports that, after turning 40, he took up two new leisure pursuits—motorcycles and the saxophone.

Just mentioning the Harley-Davidson he bought recently prompts a somewhat wistful smile, as he talks about the rolling hills and farmland of Howard County to be explored on a sunny day.

"When I was young in Italy, a motorcycle was my primary means of transportation," he says. "Then, for many years, I didn't ride. So maybe this is a return to youth, or maybe an escape from highway traffic. Whatever it is, I really enjoy taking off on the Harley."

Referring to the saxophone, he says being able to play for an hour or so in the evening is as relaxing as the Harley is sport. He likes to play accompanied by his son on the trombone. A strong investment in family is evidenced by pictures of his three children whose photos take up a prominent place in his office. He talks with pride of his oldest son who graduates from Embry Riddle Aeronautic University this year, and his nine-year-old, a member of an ice hockey traveling team, with whom he finds time to travel to out-of-town games. As for his daughter, Serena, a University of Maryland College Park freshman majoring in public health, he admits she may be the one to carry on the family tradition of medicine. "She worked here in the laboratory during summers, and she surprised even me by what she achieved," he says.


It seems Serena, who was 14 at the time, decided that the good bacteria in yoghurt might have a scientific advantage. She added the yoghurt to specimen samples of *E.coli* in a Petri dish and found that it killed the *E.coli*. "I didn't quite believe it at first," Fasano says. "I made her repeat the experiment several times."

Her first experiment stood the test of repetition and, like her father, Serena's curiosity caused her to question why. She conducted two years of research and discovered that there is a protein in yoghurt that kills the *E.coli*. She has since earned a patent for her discovery, and hopes her work may someday lead to development of an antibiotic to cure patients with the deadly *E.coli* bacterial infection.

Success and Recognition

Research and efforts to alert the medical community to the realities of celiac disease have not dimmed Alessio Fasano's intrinsic identity as healer. He still can be seen in the center's clinic on a daily basis, treating patients, giving them the benefit of his optimism—an optimism born of his conviction that celiac disease was a presence that needed to be confronted head-on.

There have been impressive milestones in the relatively short life of the center for celiac research, not the least of which is the center's role in spearheading the American Celiac Disease Alliance, resulting in a Congressional food labeling law that makes it easier for patients with the disease to identify safe food items. The center completed a case-finding study involving a network of 50 primary care physicians who enrolled more than 2,000 patients with celiac disease, underlining the center's roadmap for increasing awareness by offering screening capabilities to physicians.

Advocacy for awareness was further corroborated in 2006 when the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition identified celiac disease as the disease of the year—this only a few years after it was considered practically non-existent in the U.S. Fasano's personal honors have included Maryland's Innovator of the Year Award, and the University of Maryland Baltimore 2006 Entrepreneur of the Year Award—all of which suggest that Fasano found the trouble he was looking for in the underdiagnosis of celiac disease. He found it—and he fixed it. 

reunion 2008

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Welcome from the MAA President

The next several pages detail our 133rd Medical Alumni Reunion held last May. I'm pleased to report that more than 800 alumni, faculty, students, and friends attended the three-day event highlighted by our awards luncheon, historical clinico-pathological conference, crabfeast, and class reunion parties. A span of 85 years of our medical school classes celebrated together, as first-year students from the class of 2011 mingled with Dr. Paul Schenker, a member of the class of 1926 and our oldest living graduate! It was a joyous occasion.

It is truly an honor to serve as president of the oldest independent medical alumni association in the United States. Since 1875 the MAA has served as the primary communications link between the school and its graduates as well as keeping alumni connected with each other. We do so by publishing a quarterly magazine now known as the *Medicine Bulletin*, hosting regional receptions, and staging an annual reunion. Our data base maintains the most up-to-date information we have on graduates, and our website (www.medicalalumni.org) is only a click away from connecting with the alumni office for all the latest updates about our association and school.

The beauty of our organization is the magnitude of the volunteerism. In addition to our 14-member board, we have more than 100 alumni actively involved in the activities of the association each year. Whether it's generating ideas for upcoming issues of the *Bulletin* magazine as a member of the editorial board, overseeing conservation of Davidge Hall by sitting on the restoration committee, or planning for a class reunion, our alumni colleagues take great pride in upholding a standard of excellence set years ago by our predecessors.

I encourage you to join us in our work for this great medical school. We're only a click away!

Ronald Goldner received his undergraduate degree from the University of Maryland School of Pharmacy in 1960. Upon receiving his MD from Maryland in 1965, he interned at Maryland General Hospital and received residency training in dermatology at Maryland. After serving for two years in the U.S. Air Force, he returned to Maryland to open a dermatology practice with offices in Baltimore City and Westminster, Maryland. In 2007, Goldner joined the faculty at Maryland as a clinical professor and associate director for the dermatology residency training program. He also maintains a private practice through Maryland's dermatology clinic with a special interest in contact dermatitis.



Ronald Goldner, '65

134th President
Medical Alumni Association

Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Medicine Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

A Tribute to our Oldest Living Graduate

Something special occurred in spring. Paul Schenker, '26, joined the medical school for both the reunion and pre-commencement convocation.

Last year Maryland celebrated its bicentennial anniversary. One hundred years earlier, in 1907, it was the centennial celebration. Schenker witnessed both. At age 104 (he turned 105 in June), the Baltimore native is Maryland's oldest living graduate. A retired surgeon, Schenker attended this year's alumni recognition luncheon, and with family members looking on received a lifetime achievement award from the medical school during the pre-commencement convocation at Joseph Meyerhoff Symphony Hall.



Receiving his lifetime achievement award from Dean Reece to a thunderous ovation at pre-commencement convocation on May 16.



Above: Seated in center with family members during the 133rd Reunion
At right: From the 1926 yearbook

PAUL SCHENKER,
BALTIMORE, MARYLAND.

Phi Lambda Kappa.

Mount Vernon College.

PUL still wore short pants when he entered medical college. Although he wears them long now, his outside obstetrical patients always mistook him for a boy and asked whether he was the doctor. However, Paul is a natural jester and can easily take a joke, a cigarette, or a drink of pop (?).

Paul is going to be a great surgeon—as a matter of fact he admits it himself. We saw him assist some of the operating room nurses during his junior internship at the University Hospital last summer and can't help but acknowledge his surgical adaptability.

We all like Paul—and we hope that his future undertakings will be as brilliant as his work in school.

Recognition Luncheon

Gilden, Heisler, Kalish Honored at 133rd Recognition Luncheon

Donald H. Gilden, '63, an expert on viral infections of the nervous system and professor and chair of the department of neurology and professor of micro biology at the University of Colorado School of Medicine, received the 2008 Honor Award & Gold Key at the 133rd Recognition Luncheon on May 2. The award, given since 1948, recognizes outstanding contributions to medicine and distinguished service to mankind. Alice B. Heisler, '63, the second female president of the Medical Alumni Association and long-time Maryland faculty member, and Murray A. Kalish, '73, a member of the faculty, former alumni president, and captain for the class of 1973, were co-recipients of the 2008 Distinguished Service Award. The honor has been presented since 1986 for outstanding service to the medical school and alumni association. In addition, 21 members from the class of 1958, celebrating their golden anniversary, were recognized during the luncheon.



This page, counter-clockwise: Donald H. Gilden, '63; Murray A. Kalish, '73, with daughter Jennifer and granddaughter Gavriela; out-going board member George Boyer, '83, and wife Alicia; and Alice B. Heisler, '63, with SOM dean E. Albert Reece, MD, PhD, MBA

Did we take your picture?

Photographs from the 133rd Medical Alumni Reunion are available on the MAA website: www.medicalalumni.org. Please let us know if you're your favorite.





Saliee Keller joins husband Richard, '58, and class captain Stuart Brager, '58



Out-going board member Barry Schlesselman, '68 (right) receives his award from MAA president David B. Sigman, '93

CALLS FOR 2009 Awards Nominations!

Alumni, faculty, and friends are invited to send in nominations for two MAA-sponsored awards by November 1, 2008. The Honor Award & Gold Key is presented to a living graduate based on outstanding contributions to medicine and distinguished service to mankind. Factors considered in the selection process include: impact of accomplishments; local, national, and international recognition; support letters, and publications. The Medical Alumni Association Service Award is given to an individual who has provided outstanding service to the Association and Medical School. The awards will be presented during the Reunion Recognition Luncheon on Friday, May 1, 2009. Letters of nomination for both awards must include a curriculum vitae and should be addressed to:

Alan R. Malouf, '85
Chair, Awards Committee
Medical Alumni Association
522 W. Lombard Street
Baltimore, MD 21201-1636 or emailed to:
maa@medalumni.umaryland.edu



Akhenaten

Akhenaten Suffered from Familial Gynecomastia, Craniosynostosis

a pharaoh during Egypt's 18th Dynasty—best known for transforming Egypt's religious system from worship of multiple gods to the worship of one god—may have had two medical abnormalities that could explain his portrayal in sculpture and carvings with an exaggerated female appearance and elongated head.

The Egyptian pharaoh was the subject for the 14th annual Historical Clinicopathological Conference in Davidge Hall on May 2. The event, devoted to the modern medical diagnosis of disorders that affected prominent historical figures, is organized by Philip A. Mackowiak, '70, and is staged during the annual medical alumni reunion.

While the bodies of many pharaohs and members of their families have been preserved as mummies, no mummy of Akhenaten has been found. But statuary and carvings from the time show Akhenaten alone as well as in affectionate family settings that included his main consort, Nefertiti, and their children. Such settings were never employed in artwork of pharaohs before or after Akhenaten.

Previously, researchers have focused on several singular medical abnormalities to explain Akhenaten's appearance. Among them are Frohlich's Syndrome, Klinefelter Syndrome, or Marfan Syndrome. But according to Irwin M. Braverman, MD, professor of dermatology at Yale University and invited clinician for the conference, it could have been familial gynecomastia and craniosynostosis.

Braverman attributes the king's female form to familial gynecomastia, brought on by an inherited syndrome called aromatase excess syndrome. This diagnosis is the first to be associated with Akhenaten. Aromatase (estrogen synthetase) is an enzyme complex that plays a critical role in converting androgens, hormones associated with male characteristics, into estrogens, hormones associated with female characteristics. Men and women produce both androgens and estrogens. Aromatase excess syndrome tips the androgen/estrogen balance in favor of estrogen, leading to the feminization of men, premature sexual development in girls, also known as isosexual precocity, and large

breasts in women. The syndrome is dominantly inherited, which means that an abnormal gene from one parent is all that is required for the syndrome to be inherited.

Braverman says he found some evidence of familial gynecomastia in depictions of Akhenaten's father, grandfather and great-grandfather as well as in the founder of the 18th Dynasty, Tutmosis I, six generations earlier. King Tut, who may have been Akhenaten's brother, also had gynecomastia. In addition, he says a relief of Akhenaten and his family seems to confirm his theory of this inherited defect. A relief shows Akhenaten holding one daughter and Nefertiti holding another. On the floor is a third princess who appears to be six to seven years old, with breasts indicating isosexual precocity. Two other statues of princesses as children three to five years old depict them with breasts as well. "If they really had breasts at that age, this would prove the presence of the aromatase excess syndrome," says Braverman, who adds that it may be possible to confirm the presence of





Irwin M. Braverman, MD



Donald B. Redford, PhD

the genetic aromatase syndrome because the mummies of Akhenaten relatives King Tut, Tuthmosis I and Queen Hatshepsut exist. "DNA from the mummy's bone marrow could be analyzed to look for the gene defect."

As for the shape of Akhenaten's head, Braverman traces this to craniosynostosis, in which sutures, the fibrous joints of the head, fuse at an early age, and interfere with the process of skull formation. The specific condition, the absence of the sagittal suture, is dominantly inherited. Braverman says he observed this abnormality in the king's daughters as well as in Queen Hatshepsut, daughter of Tuthmosis I, founder of Akhenaten's paternal line, and in King Tut, who ended this line.

Sutures normally expand as the brain expands and typically do not fuse until the age of 25 to 30. "At first, I wondered whether they bound the heads of infants to get this effect," says Braverman, "but there is no mention of this in Egyptian literature." The mummies could also be tested for the presence of three genes known to be responsible for most of the craniosynostosis syndromes.

Another guest participant was Canadian Egyptologist and archaeologist Donald B. Redford, PhD, a professor of classic and ancient Mediterranean studies at Pennsylvania State University. Redford, who is an expert on ancient Egypt and Biblical studies, has researched the

18th Dynasty Amarna period and is co-director of the Akhenaten Temple Project.

Redford says the bizarre depictions of Akhenaten's body began to appear after the third year of the king's reign, when he began worshipping the sun god, Aten. He says the king's belief system cannot be divorced from the art style; a more personalized art style reflects a more personal religion. Redford notes that Akhenaten even claimed, "'There is only one god, my father. I can approach him by day, by night.' This was a very strange statement for the time." Akhenaten may have been the first monotheist in all of history, a precursor to Abraham, Isaac, Jacob, and Muhammad as prophets who worshiped one god.

The program included musical selections from Philip Glass's symphony, *Akhenaten*, as well as a tribute to the pharaoh by actor/consultant Wayne Millan.

Statuary and carvings from the time show Akhenaten alone as well as in affectionate family settings that included his main consort, Nefertiti, and their children. Such settings were never employed in artwork of pharaohs before or after Akhenaten.



Lyric tenor Emanuel C. Perlman performing a selection from Philip Glass's symphony *Akhenaten*



Actor Wayne Millan

reunion 2008

The Annual Crab Feast

The Baltimore Museum of Industry was the site of the annual MAA Crab Feast on Friday, May 2. More than 200 alumni, students, and their guests turned out to tour the museum, listen to jazz music, and enjoy the company of good friends.



Joseph D. Jencr, 73 and wife Jean



Stephen Valenti, '78, wife Elizabeth Kingsley, '78, and John Chatlos, '78



Lewis H. Richmond, '58, chats with classmates



Members of the Class of 1968

Most people don't realize how important they are in our daily lives. Signs are the most direct form of visual communication available, and the only form of communication available to everyone. Signs can communicate to the subject of the sign, and they can be retrieved at a later time.

do without street signs? People when they are traveling to information such as street But a sign can also give it may tell us from its expensive a business or



Ellen Goldmark, '08, and classmate Daniel Lerman, '08



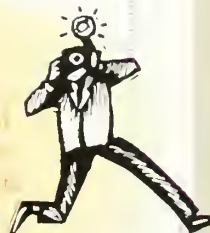
Werner Kaese '53 speaking with Rajah Longo '53



A. Clark Holmes, '58, and wife Jan

Did we take your picture?

Medical Alumni Association
www.medicalalumni.org



Frank K. Kri: '58, and wife Janette

reunion 2008

Dean's Brunch

The Reginald F. Lewis Museum of Maryland African American History & Culture was the site of a brunch with SOM dean E. Albert Reece, MD, PhD, MBA on May 4 as the reunion came to a close. More than 40 alumni and family members enjoyed meeting the dean and later had an opportunity to tour the museum.



Michael McEvoy, '83, visits with one of his patients—the saxophonist.



Elijah Saunders, '60, and George Baumgardner, '58



Sharon Reece, husband and dean E. Albert Reece, MD, PhD, MBA, with Donald Stewart, '55

Did we take your
picture?



www.medicalalumni.org



MAA president Ronald Goldner, '65, and Vice President Otha Myles, '98



Charlotte Jones-Burton, '99, with son Corinthian

Two weeks ago, I had
aortic valve repair surgery
at the University of Maryland
Heart Center.

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to send me flowers for once.



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I was back in time to make my own arrangement.

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reunion 2008

Reunion Class Parties



Class of 1943 (March & December) at the Recognition Luncheon at Westminster Hall



Class of 1938: H. Leonard Warres, '38, celebrated his 70th medical school anniversary by attending several events during reunion, including the Recognition Luncheon on Friday, trip to the Walter's Art Museum, Davidge Hall picnic, and Baltimore land & sea tour. Wife Margie also enjoyed the events. Warres is a retired radiologist.



Class of 1948 at the Recognition Luncheon at Westminster Hall



Class of 1958 at the Center Club



Class of 1953 at the Maryland Club



Class of 1963 at the Maryland Club

Did we take your
picture?

For more information on the reunion, visit our website at www.medicalalumni.org. We would love to hear from you and see your picture. Please email us at reunion@medicalalumni.org.





Class of 1968 at the Home of Charles Samorodin, '68



Class of 1988 at the Maryland Club



Class of 1973 at the Center Club



Class of 1993 at Neo-Vaccino Restaurant



Class of 1978 at the World Trade Center



Class of 1998 at Cedar Lane Park



Class of 1983 at the Maryland Club



Class of 2003 at Mother's Federal Hill Grill

Appointments to National Organizations



Stephen B. Liggett, MD

Stephen B. Liggett, MD, professor, departments of medicine and physiology, was appointed chair of the molecular mechanism working group in the pharmacogenetic research network at the National Institutes

of Health. Additionally, Liggett was selected to be on the editorial board of *Clinical and Translational Science*.

Dhan V. Kalvakolanu, PhD, professor, department of microbiology & immunology and program in oncology, has been elected to the editorial board of the *Journal of Biological Chemistry*.



Dhan V. Kalvakolanu, PhD

Thomas A. MacVittie, PhD, professor, department of radiation oncology, was appointed as a voting member of the National Biodefense Science Board (NBSB). The primary goal of the NBSB is to provide expert advice and guidance to the secretary of the U.S. Department of Health and Human Service. Included are scientific, technical



Thomas A. MacVittie, PhD

and other matters of special interest regarding activities to prevent, prepare for and respond to adverse health effects of public health emergencies resulting from current and future chemical, biological, radiological and nuclear agents, whether naturally occurring, accidental or deliberate.

Richard L. Eckert, PhD, MS, professor and chair, department of biochemistry & molecular biology, was elected to a five-year term as a member of the board of the Society of Investigative Dermatology, beginning in May 2008.



Richard L. Eckert, PhD, MS



Claire M. Fraser-Liggett, PhD

council for Human Genome Research for a three-year term effective February 2008.

Nelson H. Goldberg, '73 professor of plastic and reconstructive surgery, was elected to a three-year term on the board of governors of the American College of Surgeons as the representative of the American Association of Plastic Surgeons.



Nelson H. Goldberg, '73

William F. Morgan, PhD, DSc, professor, department of radiation oncology, was appointed conference chair for the 2009 Gordon Research Conference on Radiation Oncology to be held in January 2010 in Ventura, California. Additionally, Morgan was elected vice president of program area I, a committee that is responsible for basic criteria, epidemiology radiobiology and risk.

Lisa Shulman, MD, associate professor, department of neurology, was elected to the board of directors for the American Academy of Neurology.



Lisa Shulman, MD

Sanford A. Stass, MD, professor and chair, department of pathology, was named chair of the collaboration and publication subcommittee of the National Cancer Institute's early detection research network (EDRN). He was also elected as the biomarker reference laboratory representative on the EDRN executive committee. The EDRN is an initiative of the National Cancer Institute that brings together dozens of institutions to help accelerate the translation of biomarker information into clinical applications and to evaluate new ways of testing cancer in its earliest stages and for cancer risk.



Sanford A. Stass, MD

Awards & Honors

Bradley E. Alger, PhD, professor, department of physiology, was elected conference co-chair for the 2009 Gordon Research Conference entitled "Cannabinoid Function in the CNS."

Stephen C. Jacobs, MD, professor, department of surgery, received the champion of hope award from the National Kidney Foundation of Maryland at its 2007 gift of life gala. Jacobs, the former chief, division of urology, was honored for his contributions to the development of the technique of laparoscopic donor nephrectomy. This technique has allowed living kidney donors to give a kidney to a family member or loved one with much less



Stephen C. Jacobs, MD

morbidity. The technique is credited with initiating a large increase in the number of living donor kidney transplants, thus taking pressure off the shortage of cadaver organs that are viable for transplantation. Jacobs and Stephen

T. Bartlett, MD, professor and chair, department of surgery, spearheaded a team of donor surgeons and transplant recipient surgeons who have performed more than 1200 such kidney transplant operations. Jacobs popularized the laparoscopic donor operation by training surgeons from around the world who traveled to the University of Maryland to learn the technique. The operation is now the standard worldwide. Other award winners at the gift of life gala included Senator Benjamin Cardin who received the 2007 public service award. University of Maryland School of Medicine Dean Emeritus Donald E. Wilson, MD, MACP, who himself received a kidney by the laparoscopic donor nephrectomy technique, was also present.

Amal Mattu, MD associate professor, department of emergency medicine, received the 2008 national educator of the year award given by the American Academy of Emergency Medicine. The award was based on his educational contributions to the specialty in the areas of emergency cardiology and electrocardiography.



Amal Mattu, MD

S. Michael Plaut, PhD assistant dean for student affairs and associate professor, department of psychiatry, was given the inaugural exemplary service award by the Association of American Medical Colleges' (AAMC) Northeast Group on Student Affairs (NEGSA) at its annual meeting in Baltimore on April 5, 2008. The award reflects Plaut's 30 years of membership in NEGSA, during which time

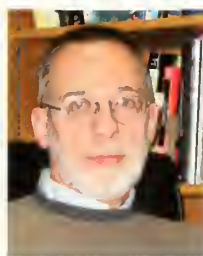


S. Michael Plaut, PhD

he held a number of positions, including chairmanship of the committee on counseling and support resources, representative to the AAMC committee on student affairs and NEGSA chair.



Bradley E. Alger, PhD professor, department of physiology, was an invited speaker and session chair for the Gordon Research Conference entitled "Cannabinoid Function in the CNS" held in September 2007 in Les Diablerets, Switzerland. Additionally, Alger was also an invited speaker and session chair for the 17th Annual Neuropharmacology Conference entitled "Cannabinoid Signaling in the Nervous System" held in October 2007 in San Diego.



Bradley E. Alger, PhD

Marie R. Baer, MD professor, department of medicine and program in oncology, gave two oral presentations, "Disordered Gene Expression in Leukemia" and "Acute Myeloid Leukemias: Therapy, Excluding Transplantation-Results of Clinical Trials," at the 49th annual meeting and exposition of the American Society of Hematology held in December 2007 in Atlanta.

Lixing Lao, PhD professor, department of family & community medicine, presented the following lectures in October 2007: "Ancient Acupuncture and Modern Evidence Based Medicine—Challenges and Opportunities"

at the international conference on automation science and technology held at the Chinese Academy of Sciences in Beijing and "Functions and Specificities of Acupuncture Points," "Acupuncture and Evidence-Based Medicine" and "TCM Education in the U.S. at the 20th anniversary of World Federation of Acupuncture-Moxibustion Societies (WFAS) and International Acupuncture Congress, also in Beijing.

David Scott, PhD professor, department of surgery and center for vascular and inflammatory diseases, and **Donna Farber, PhD** associate professor, department of surgery, organized the 3rd Aegean Conference on Autoimmunity and Tolerance in Rhodes, Greece. Additionally, Scott was an invited speaker and presented "Novel Therapy for Tolerance to Inhibitors in Hemophilia" at the 20th Van Creveld Clinic Symposium in Amersfoort, the Netherlands.



Lixing Lao, PhD



David Scott, PhD



Toni Antalis, PhD

Toni Antalis, PhD professor, department of physiology and center for vascular and inflammatory diseases, chaired the 2008 Gordon Research Conference entitled "Plasminogen Activation and Extracellular Proteolysis"

The conference was held in February 2008 in Ventura, California.

Maureen Black, PhD John A. Scholl Professor of Pediatrics, organized an international conference entitled "Child Development from a Global Perspective: Lost Potential, Modifiable Risk Factors, Successful Programs &

faculty

Future Goals" which was sponsored by the Rockefeller Foundation and held in Bellagio, Italy, in October 2007. The conference was attended by representatives from 11 countries and major international agencies such as the WHO, UNICEF and the World Bank.



Maureen Black, PhD



Joyelle Dominique, MS

Joyelle Dominique, MS, clinical care and research laboratory director, institute of human virology, presented "Management of Clinical Laboratory: Key Aspects for Maintenance of Equipment" at the Centers for Disease Control

and World Health Organization—African Regional Office meeting on clinical laboratory testing harmonization and standardization in Maputo, Mozambique, in January 2008. The presentation focused on resource-limited settings in the developing world

Richard L. Eckert, PhD, MS, John F. B. Weaver Endowed Professor and chair, department of biochemistry & molecular biology, was the meeting organizer for the 2nd international symposium on Translational Cancer Research held in Mumbai, India, in December 2007. In addition, Eckert gave a lecture at the symposium entitled "Making Sense of Skin—Polycomb Genes and Nutrition-Based Cancer Prevention."



Paula Richey Geigle, PT, PhD

Paula Richey Geigle, PT, PhD, assistant professor, department of physical therapy & rehabilitation, presented a clinical session entitled "Aquatic Physical Therapy" at the American Physical Therapy Association's

national student conclave, in Valley Forge, Pennsylvania, in October 2007.

Laurel J. Kiser, PhD, associate professor, and **Deborah Medoff, PhD**, assistant professor, both from the department of psychiatry, and **Maureen Black, PhD**, professor, department of

pediatrics, presented "Urban Poverty, Childhood Complex Traumatic Stress Symptoms, and Family Processes" at The International Society for Traumatic Stress Studies annual meeting in Baltimore in November 2007.



Myung Park, MD



Laurel J. Kiser, PhD

Myung Park, MD, assistant professor, department of medicine, presented, "Clinical and Investigational Utility of MRI and Other Diagnostic Tools: New Views of the Right Heart" at the American Heart Association meeting

in Orlando, FL, in November 2007. Additionally, Park presented "Vascular Complications of Systemic Sclerosis: Long-Term Treatment Strategy for PAH," at the American College of Rheumatology meeting in Boston in November 2007.



John R. Hess, MD, MPH

John R. Hess, MD, MPH, professor, departments of pathology and medicine, consulted with the Ministry of Health of Malaysia as a World Health Organization (WHO) representative in March 2008. Hess is on the WHO expert panel on blood transfusion medicine, and is an expert on blood substitutes.

Richard Y. Zhao, PhD, associate

professor, departments of pathology and microbiology & immunology, and institute of human virology, gave a plenary lecture entitled "Schizosaccharomyces pombe as a Model

Organism for Apoptosis-induced HIV-1 Viral Protein R" at the 6th international conference on Yeast Apoptosis in Leuven, Belgium, in April 2008.



Richard Y. Zhao, PhD

Book/Textbook Publications

John Kaster, professor of medicine and former chairman of the department of medicine from 1984 to 1997, published *Selling Teaching Hospitals and Practice Plans: George Washington and Georgetown Universities*, by The Johns Hopkins University Press.

Amal Mattu, MD, associate professor, department of emergency medicine, and **Robert A. Barish, MD**, vice dean for clinical



Robert A. Barish, MD

affairs, and professor, departments of medicine and emergency medicine, co-edited, along with Jeffrey A. Tabas, MD, of San Francisco General Hospital, *Electrocardiography in Emergency Medicine*. This 18-chapter

book was published by the American College of Emergency Physicians in October 2007. Chapters were contributed by **Edward B. Bolgiano, MD**, assistant professor, depart-

ment of emergency medicine. **Michael C. Bond, MD**, clinical instructor, department of emergency medicine; and **Stephen Y. Liang, MD**, a fourth-year resident in the combined emergency medicine/internal medicine program.



Michael Miller, MD

Michael Miller, MD, associate professor, department of medicine, co-authored a book entitled *The American Medical Association Guide to Preventing and Treating Heart Disease*.

Grants & Contracts

Dudley Strickland, PhD, professor, department of surgery, and director, center for vascular and inflammatory diseases, received a five-year \$1,856,250 grant from National Institutes of Health for his work entitled "Regulation of Surface Receptors by LRP."



Dudley Strickland, PhD

Mark S. Williams, PhD, assistant professor, department of microbiology & immunology and center for vascular and inflammatory diseases, received a five-year \$1,500,000 grant from National Institute of Allergy and Infectious Diseases for his work entitled "Function of NADPH Oxidase(s) in T Lymphocytes."



Mark S. Williams, PhD

Terez Shea-Donohue, PhD

professor, department of medicine, received a competitively renewed five-year \$1.8 million R01 grant from the National Institute of Allergy & Infections Diseases for her work entitled "GI Nematodes & Gut Functional Responses to Inflammation."




Terez Shea-Donohue, PhD



Brian Berman, MD

Brian Berman, MD, professor, department of family & community medicine, and director, of the center for integrative medicine, has received a \$5 million gift from an anonymous donor to further the center's

work in evaluating complementary and alternative therapies and developing clinical models that offer patients integrative care. The gift will allow the center to broaden its investigation of the use of traditional Chinese medicine and mind/body therapies for particularly burdensome health care problems, such as pain management in osteoarthritis and rheumatoid arthritis. Berman also received a \$1.5 million from the John W. Kluge Foundation. The gift will help supplement the work as outlined above, especially in the areas of pain management and treatment of many chronic diseases.

Paul A. Welling MD, professor, department of physiology, received a four-year \$1,275,000 competing renewal for his National Institute of Diabetes and Digestive and Kidney Diseases research grant entitled "Polarized Trafficking of K⁺ Channels in the Kidney." 

Grants & Contracts

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Genetic Counselors—A Physician's Resource

The mention of genetic counseling often triggers images of anxious parents in search of answers regarding the health of their infants or small children. However, what many don't seem to realize is that genetic counselors are clinically trained professionals who can be experts not only in prenatal evaluation and pediatrics, but cancer, cardiology, neurology and a host of other sub-specialty areas. Less than 40 years old, the field of genetic counseling is growing exponentially, and the University of Maryland School of Medicine is responding accordingly.

Genetic counseling is the process of helping people understand and adapt to the medical, psychological, and familial implications of genetic contributions to disease. It involves the interpretation of family and medical histories to assess the chance of disease occur-

rence or recurrence. Genetic counselors educate individuals and families about inheritance, testing, management, prevention, resources and research of genetic conditions and diseases.

Since 1996, the medical school has offered a master's degree in genetic counseling training program, one of only 32 accredited programs in the nation. Among these training

programs, there are only about 200 students selected each year, and therefore competition is fierce. Maryland accepts just five or six students per class. "We have the resources and facilities on campus to educate and train more students, but we are limited by the number of slots available for the required clinical rotations," says Shannan DeLany Dixon, MS, CGC, director of the master's in genetic counseling program and assistant professor in the department of pediatrics. Students need to complete three 12-week clinical rotations at an accredited American Board of Genetic Counseling (ABGC) site in order to graduate, and there are only so many sites in




First-year genetic counseling students with Frances S. Collins, MD, PhD, director of the National Human Genome Research Institute

the Baltimore—Washington metropolitan area. "What is so exciting is that we are now seeing our alumni establishing clinics thereby providing more opportunities for our current students. They have a societal obligation—a desire to give back to the medical school—and are committed to their rapidly changing, chosen field," says Dixon.

The school's program provides students with a strong foundation in medical genetics and counseling, laboratory, and research techniques. They fulfill diverse roles in a wide range of clinical settings and learn to address the psychosocial and ethical aspects of genetic counseling. Students have the opportunity to explore all the offerings of the Baltimore campus by taking electives in the graduate school and schools of medicine, nursing, social work, and law. They complete rotations in the biochemical, molecular, and cytogenetic laboratories of the medical center.

"I provide genetic counseling and risk assessment for individuals and families suspected of having a hereditary risk of cancer," says Jessica Joines, MGC, CGC, associate director of the genetic counseling program and instructor for the department of medicine. "My work for the Marlene and Stewart Greenebaum Cancer Center at Maryland involves collaborating with the oncologists, surgeons, medical geneticists, administrators, social workers—anyone who touches the patient. Genetic counselors often play an integral part of a patient's health care management team." At the medical school, this critical role is communicated early on in a future physician's training. Genetic counselors teach first year medical students in a small group setting during their genetic block.

"The field is exploding, and the opportunities are endless. We have students returning for their degree years after working for hospitals and private practices or even pursuing higher degrees in other fields," Dixon shares. "The genetic counselor's role and recognition is expanding in general practice. Here at Maryland where nine genetic counselors are employed, we hope to integrate into other departments and create new positions. There's a need, and we are a tremendous resource." 

Genetic counseling is the process of helping people understand and adapt to the medical, psychological, and familial implications of genetic contributions to disease.

advancement

Pass & Susel Name Medical Education Facility

The University of Maryland School of Medicine has been at the forefront of medical education for 200 years. Thanks to a gift from two generous alumni, the school will continue to have the resources to maintain its state-of-the-art facilities and anticipate future trends in education.

The medical education laboratories—or pods as they are known to medical students—located in Howard Hall, are now named in honor of Carolyn J. Pass, '66, and Richard M. Susel, '66. Pass, a dermatologist and clinical assistant professor in the department of dermatology, and Susel, an ophthalmologist and assistant professor in the department of ophthalmology were joined by family, friends and classmates at the dedication ceremony on May 1. The couple is obviously devoted to the importance of teaching and training, and their gift reflects their passion. Their gift will maintain and enhance the medical education laboratories, improve the curriculum, and reward exceptional teaching.

"As professors ourselves, we believe that we have an obligation to the physicians of the future, while also acknowledging in a positive way those that are responsible for educating them," offers Susel.

"We believe that giving back is a responsibility. To be able to fulfill this obligation exactly as we envisioned it is a true gift," adds Pass.



Richard M. Susel, '66, and wife Carolyn Pass, '66

Student Scholarship and Awards Brunch



Dean E. Albert Reece, MD, PhD, MBA, Frenkil Award winners Ruth Bringman Gardner and Amanda L. Stevens, Mrs. Carolyn McGuire Frenkil, and Vice Dean Bruce Jarrell, MD

tion of these awards occurred during pre-commencement convocation, but the growing numbers of awards over the past few years forced the administration to dedicate time for a separate ceremony last year. The event, held at the M&T Pavilion of the

Hippodrome Theatre, recognized the medical school's most accomplished students as well as our donors who make the awards possible. Again this year, the event was supported by the medical school and Medical Alumni Association.

Attendees included Mehtap Aygun, '80, who established the Dr. Jeremy Hallisey Prize for Compassion and Humanistic Qualities in Anesthesiology; Mary Dorcas Clark, '45, whose scholarship bears her name; Benito Chan, MD, organizer and supporter of the School of Medicine General Scholarship; Theodore Patterson, '62, supporter of the Lois Young-Thomas Memorial Scholarship and Leadership Guild; and Mrs. Carolyn McGuire-Frenkil, who along with husband James Frenkil, '37, established the Dr. James and Carolyn Frenkil Award.

Joseph Yeh, '08, addressed the donors by saying, "For all of us, I thank you, sincerely and repeatedly . . . I applaud and encourage all donors to continue your commitment to the training of future physicians at the University of Maryland School of Medicine. We are a wonderful investment."

More than 250 students, family members, faculty, alumni, and friends attended the second annual Student Scholarship & Awards Brunch on May 15. For many years the presen-

advancement

Alliance Celebrates Milestone

JBDA

The medical school's society for major donors—the John Beale Davidge Alliance—celebrates its 30th anniversary this year. And during the annual luncheon on May 1 at the Hippodrome Theatre, more than 100 alumni, faculty, and friends were recognized for their recent philanthropic support to the medical school. There are now more than 850 members of the Alliance. During the luncheon, members were treated to an economic update by Bill Stone, senior vice president and chief investment strategist for The PNC Financial Services Group.

FY08 New Members

Elm Society

Alumni

Richard E. Ahlquist Jr, '52
Joel S. Webster, '53
Charles Earl Hill, '60
Ronald L. ('61) & Shirley D. Gutherlet
Alice B. Heisler, '63
Merrill M. Knopf, '63
Chris P. Tountas, '63
Alfred A. Serritella, '66
Francis D. Drake, '67
Fred R. Nelson, '67
Sheldon B. Bearman, '68
Eugene Willis Jr., '68
Richard H. Sherman, '72
Jerald P. Waldman, '72
Michael J. Dodd, '73
Denis Wm. MacDonald, '73
Anonymous, '77
Richard Zangara, '77
Philip A. Ades, '78
William J. Oktavec, '80

Karen R. Kingry, '81
Brian ('81) & Dianne Wamsley
Neil B. Friedman, '83
Paul R. Ringelman, '84
Sharon M. Henry, '85
James P. Nataro, MD, PhD '87
David A. Burns, '89
Charlotte M Jones-Burton, '99

Physical Therapy Alumni

Leslie B. Glickman, '64

Faculty

Dr. Nathan Carliner
Dr. Richard Pierson
Dr. William Regine

Friends

Anonymous
David J. Bederman & Lorre B. Cuzze
Cliff & Arlene Blaker
Michael A. Campbell & Tracy Lynn McCreedy
William C. & Lotte B. Copeland
Leo G. & Joan Dominique



Bill Stone, senior vice president at PNC Bank

Eugene Eidenberg
Myron D. Gerber
Dr. Harold & Mrs. Joan Kaplan
Audrey Levine
Drs. Dan & Nancy Longo
David & Cynthia MacLean
Katherine O'Neil-Brady
Dr. Milton Rock
Dr. Sharon Wilks
Jerry Williams

Silver Circle

Alumni

Cliff Ratliff Jr., '43D
Daniel B. Lemen, '45
Webb S. Hersperger, '56
Damon F. Mills, '60
Carl F. Berner, '61
Michael A. Grasso, '70
Nelson H. Goldberg, '73



Kathu Godfrey, husband Peter, '79, Arthur F Woodward Jr '79, and wife Karen

advancement



Nathan Schnaper, '49, Nathan Stofberg, '60, Helen Stofberg, and Ronald Keyser, '60

Faculty

Dr. Sania Amr
Dr. James & Mrs. Nancy Mixson
Drs. David & Ann Zimrin

Friends

Peter G. Angelos
Anonymous
Ruth Blandin
Howard S. Brown
Dr. Jean Cheng
Francis J. Clark Jr.
Dr. John M. Davis
Dr. Merrill & Karen Egorin and Family
Susan Fischell

Victoria W. Smoot, '80
Roy T. Smoot Jr., '80
Protagoras N. Cutchis, '83
Theodore Y. Kim, '84
Dennis Kurgansky, '84

Faculty

Dr. Angela Brodie

Friends

Daniel P. & Kathleen V. Amos
David Blanken & Barbara Friedman
Barrett B. Kollme
Beth Line
George M. Manis, Esq. & Anastasia Manis
Hugh P. III & Joyce N. McCormick
Sylvan J. Naron
Dr. Lucy R. Waletzky
Jane Zee

1807 Circle

Alumni

Clark Whitehorn, '48
Robert Berkow, '53
Ronald E. Keyser, '60
Carolyn J. Pass, '66
Richard M. Susel, '66
Kristin Stueber, '69
William G. Armiger, '72
Dahlia R. Hirsch, '77
Barry A. Wohl, '77
George E. Groleau, '82

Physical Therapy Alumni

Jane S. Satterfield, '64



David Sigman, '93, Ruth Luddy, '64, Bernice Sigman, '60, and Rodrigo Toro, MD



Dahlia Hirsch, '77 and husband Barry A. Wohl, '77

The Family of the Late Dr. Israel Grossman

Dr. Lisa D. Kelly
Frank M. Masters
Mrs. Corinne C. Schwartz
Thomas H. & Clair Zamoiski Segal
Mary H. Shea
Mrs. Mary E. Staples

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advancement

The Margaret Blandin Clark Memorial Fund for Behavioral Medicine

The medical school lost one of its most beloved faculty when **Margaret Blandin Clark, LSCW**, died in August 2007, a little more than one year after she was diagnosed with ovarian cancer. Clark was assistant professor and director of the behavioral medicine program in the department of family and community medicine where she trained generations of medical students and residents in the art of communicating with patients.

"What Margaret has passed on to all of those she taught is the knowledge of how to ask patients questions and how to respond with empathy to the answers," said **Kevin Ferentz, MD**, associate professor, "She taught future doctors that touching the patient, literally and figuratively, is as important as diagnosing and treating the ailment."



Margaret Blandin Clark, LSCW

In celebration of her life, and in recognition of her 15 years with the school, husband Francis J. Clark, Jr. established the Margaret Blandin Clark Fund in Behavioral Medicine. Generous contributions soon followed from her mother Ruth Blandin and others including **C. Earl Hill, '60**, who was on the faculty in the department for 27 years.

The fund will provide a sound fiscal base for the department to continue providing excellence in the education and training of family medicine physicians and the best possible care for patients. It is hoped that one day the fund will create the first endowed faculty position in the department of family and community medicine. In this unique way, the memory of Clark's passion for teaching will be honored in perpetuity. 🏠

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An Olympic Performance

Scott Sigman, '90, describes his June visit to the People's Republic of China as "an epic adventure with far-reaching implications."

This seems like a bit of an exaggeration until he explains himself. Then it sounds dead on.

Sigman, a nationally recognized orthopaedic surgeon and sports medicine specialist, traveled to


Beijing prior to the Beijing 2008 Olympic Games to train surgeons in some of the minimally invasive surgical procedures he has perfected over the years. The Andover, Mass., resident who works out of Lowell General Hospital, was invited to participate in Johnson & Johnson's Active Aid campaign, an event geared toward training 30 surgeons from throughout the country in shoulder and knee techniques.

"While they are fairly current on knee procedures such as repairing ACLs, we were astonished to learn that in this country of 1.3 billion people there were fewer than 500 endoscopic shoulder operations performed last year," states Sigman. "Before our trip, the average person visiting the doctor for shoulder pain was given medicinal herbs and told to live with it," he says. "So, in a manner of speaking, we were training the first generation of shoulder surgeons in China."

Sigman was in good company. He was joined by Andrew Chen, MD, physician for the U.S. Olympic Ski Team, Timothy Kremcheck, MD, team physician for the major league Cincinnati Reds, and David Weinstein, MD, orthopaedic consultant for the U.S. Olympic training facility in Colorado Springs, Colo. The four have known one another since Sigman's 1995 fellowship at the Kerlan-Jobe Orthopaedic Clinic in Los Angeles.

"It was necessary for us to bring with us our own cadavers because they didn't have any," Sigman adds. "We sensed that our presence was going to improve health care for the average Chinese citizen. They really appreciated our efforts."

Sigman describes Beijing as "rockin'," and adds that its modernization and sophistication are similar to many American cities. "Everywhere we looked there were bright colors, people wearing jeans, and traffic jams," he says. And he was quick to point out that there were no political demonstrations during their brief three-day visit.

The mission was a collaborative effort between the International Olympic Committee and Johnson & Johnson—the official sports medicine sponsor for the games of the XXIX Olympiad. 



"Before our trip, the average person visiting the doctor for shoulder pain was given medicinal herbs and told to live with it."



Top photo: Sigman left, during a training session. Below: Sigman with colleagues Andrew Chen, MD, and Timothy Kremcheck, MD, near the Bird's Nest (Olympic Stadium).

Rebel with a Cause

ALUMNUS PROFILE:

Nelson H. Goldberg, '73



Top: Goldberg during his senior year in medical school. Below: On his new Ducati

Nelson H. Goldberg's prize sits in his driveway and gleams like a jewel in the sunlight. It's a dazzling red machine shaped like a bullet on two black wheels.

When he turns over the ignition, the machine erupts with a throaty growl, and Goldberg, dressed in jeans, a black leather jacket, black leather boots and red racing helmet, guides his motorcycle out of the driveway. Then, ever so gently, he opens the throttle and bolts down the street with a roar that can be heard a mile away.

This is no ordinary bike *or* ordinary doctor. He is a rebel *with* a cause. A member of the class of 1973, Goldberg is professor of plastic and reconstructive surgery, and the former head of the school's division of plastic and reconstructive surgery. He wears his curly hair to his shoulders, boasts a tattoo, and has a penchant for riding fast motorcycles—even to work. While he has a wild side, for the past 12 years he has dedicated himself to treating injured and deformed children and adults in Third World countries. He is also married and has three adult children.

Although he collects knives and fountain pens, plays golf, and lifts weights, motorcycles are his passion. At his Cockeysville, Maryland, home, Goldberg has miniature motorcycles sitting on bookshelves and mantles. A Harley-Davidson clock hangs on his basement wall, and there are pictures of him dressed in cycling leathers hanging out with his riding buddies.

In April, Goldberg bought his dream bike after about 40 years of riding motorcycles. He purchased a Ducati Desmosedici RR, a Grand Prix racing bike that at full throttle can do 200 miles per hour. Goldberg picked up the bike for a cool \$65,000 and only 1,500 were manufactured in the world. His bike was number 245 behind Tom Cruise who reportedly was the first to buy one in the U.S.

"It's just like being a rock star," says Goldberg, who sees people staring at his new ride. "This is sort of the pinnacle, but not to race; I'm too old to do anything foolish like that. To me, this was the ultimate motorcycle that I could have and ride."

Goldberg didn't start out riding big, powerful bikes, but as a youngster he envisioned himself on a motorcycle one day. He grew up in Baltimore, the older of two boys. His late father, Sylvan Goldberg, '39, was an internist. As a boy, Goldberg's heroes were Colts superstar Johnny Unitas and two TV characters. "I wanted to be Ben Casey," he says, referring to the 1960s television drama about a young, idealistic surgeon. "He was a pissed off angry young man. He was willing to fight

the establishment for his patients."

He also saw himself as Jim Bronson, the main character in the late 1960s TV drama, *Then Came Bronson*, about an ex-newspaperman who helps people while riding across the country on a Harley-Davidson Sportster. "I thought I could be a surgeon, ride and help people," he says.

But he started out with baby steps, riding a Vespa scooter from his home to high school. The Vespa went with him to the University of Pennsylvania, but while in medical school, he and his brother, Jonathan, bought two Triumph 650s, big bikes that moved. "I really didn't think I had full control over it," says Goldberg, recalling the first time he rode the Triumph through some windy roads. "It was kind of scary."

After graduating from medical school in 1973, Goldberg did his internship and residency at Yale University School of Medicine and Yale New Haven Hospital. He thought about becoming a neurosurgeon and then a



Goldberg with a resident and patient after surgery in Columbia, South America

Johns Hopkins-University of Maryland Combined Training Program in Plastic and Reconstructive Surgery, becoming its co-director.

While his motorcycles provided a thrill, Goldberg craved more adventure. His daughter, Gretchen, convinced him in 1996 to

travel to Guyana with her through an outreach program to help people who had little or no health care. "We could be killed or kidnaped," he thought. Despite the trepidation, he went on the trip and was stunned by the poverty. People had little food, electricity and some lived in cardboard huts. He performed cleft palate surgeries, nasal reconstructions, and mended hands.

He took other trips over the years to El Salvador, Peru, Thailand and China. He believes he is changing lives, especially the lives of children. "We operate on the poorest people," he says. "Part of why I went into medicine was to help people. If we don't take on initiatives such as this, there is a good chance it will never get done."

Since stepping down as head of the division of plastic and reconstructive surgery in 2006 after more than 20 years, Goldberg has a little more time on his hands. He could easily spend it on his new Desmosedici, or on the five other motorcycles he has in his garage that include a Harley-Davidson V-Rod, Ducati Superbike 999R, two Buell street bikes, and a small dirt bike that his son rides.

He remembers the day he picked up the Desmosedici at Duc Pond Motorsports in Winchester, Va. "I took my wife," Goldberg recalls. "She was just amazed that there were so many people circling it, taking pictures of it. I was grinning from ear to ear."

Goldberg is planning his next trip with Fall Tour. The group has taken trips up to 10 days and has traveled to places like Nova Scotia, Florida, Upper Michigan and South Dakota. But none of the members really like to camp anymore; so they have decided to fly to their destination, stay in a hotel and rent motorcycles. "A couple of years ago we all admitted that we don't like sleeping on the ground anymore," admits Goldberg, who battled prostate cancer about two years ago.

Goldberg plans to continue enjoying the speed and freedom that riding provides. His wife, Marcia, isn't crazy about her husband riding, but she has had no luck convincing him that a car might make more sense. "I don't even try anymore," she says with a smile. 🏠

While his motorcycles provided a thrill, Goldberg craved more adventure. His daughter, Gretchen, convinced him in 1996 to travel to Guyana with her through an outreach program to help people who had little or no health care. "We could be killed or kidnaped," he thought.

heart surgeon, but he soon discovered plastic surgery. In 1978, he became chief resident of plastic surgery at Yale New Haven Hospital.

Being a plastic surgeon not only allowed him to demonstrate his skill, but to help people who were scarred at birth or seriously wounded and deformed. "To me plastic surgery is the more challenging surgery," Goldberg says. "A lot of it is visual. You reconstruct someone who looks abnormal and make that person normal again."

In 1981, Goldberg became assistant professor of surgery and plastic reconstructive surgery at Maryland. He continued to ride motorcycles—BMWs and Harley-Davidsons. "It didn't matter what it was as long as it had two wheels and was fast," Goldberg says. In 1983, he and a neighbor decided to take a camping trip and ride their motorcycles. Little did they know that the duo would launch a group that gets together to this day called "Fall Tour."

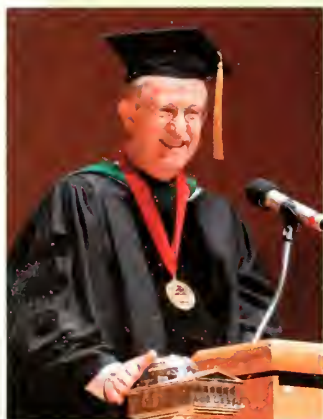
Goldberg was named head of the plastic surgery division in 1985, and four years later helped create the

student activities



On the stage at pre-commencement

Maryland Graduates its 199th Class; Members to Train in 20 Different States



*Dean's gold medal recipient
Francis S. Collins, MD, PhD*

Convocation and Commencement ceremonies were held for 145 students of the medical school's 199th graduating class on May 16. This year's pre-commencement convocation included a presentation

of the dean's gold medal to Francis S. Collins, MD, PhD, director of the National Human Genome Research Institute, as well as a lifetime achievement award to Paul Schenker, '26, Maryland's oldest living graduate.

Sixty days earlier, members of the Class of 2008 were informed of the locations of their medical training during the annual Match Day celebration in Davidge Hall. This year's national event was the largest in history,

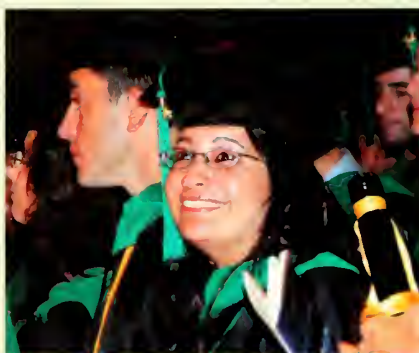
according to the National Resident Matching Program. Maryland students matched to 102 different programs at 52 hospitals across 20 states. More are planning to go into primary care medicine than any class in recent history. The biggest increases were seen in family medicine and surgery.

Nationwide, 28,737 applicants vied for one of 22,240 first-year residency positions. Of those applicants, a record-high 15,242 were U.S. medical school seniors, 94.2 percent of whom successfully matched to a residency program. The number of first-year

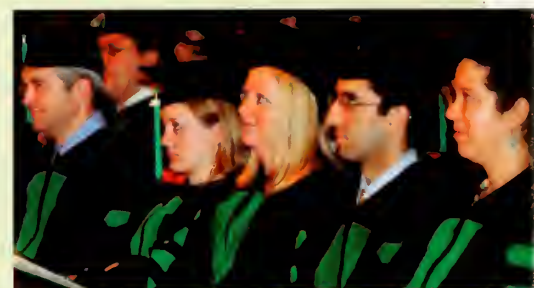
residency positions available through the match was also the highest in history, as 395 additional positions were added this year.



Sanobar Shaikh gets congratulations for matching at Maryland in emergency medicine during the March 20 Match Day Celebration



Faculty gold medal co-recipient Zaineb Hassan Makhzoumi, '08




Phonothon Appreciation Night

The 120 students who volunteered for the fall phonothon were invited to a picnic and Orioles baseball game on April 16. The picnic at Davidge Hall included typical baseball fanfare: hotdogs, hamburgers, peanuts, beer, wine, and soda. Then it was off to Camden Yards to watch the O's take on the White Sox. Unfortunately for the hometown crowd, Chicago walked away a 3-1 victor.



Shannon Graf, '10, donating hair

Students Shed Locks of Love

Nearly 40 students got ready for summer on April 29 by cutting off their hair and donating it to charity. The event was organized by **Brian Harkavy, '10**. The collected ponytails went to Locks of Love, an organization that makes wigs for children suffering from hair loss due to a variety of medical conditions. 



In the food line during the Davidge Hall picnic were first-year student-callers Mamta Jhaveri, Jolinta Lin, Jamie Goldberg, and Andrea Hebert

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180 Years Ago

In 1828, a duel is fought between students Samuel Carr of South Carolina and William Martin of the Eastern Shore over the affections of Mary Polk, stepdaughter of medical school founder and first dean Dr. John B. Davidge. The men settle their dispute at the Bladensburg dueling grounds when Carr, an experienced duelist, kills Martin with a bullet between the eyes. He is expelled from school and leaves the state with Miss Polk whom he soon weds. Carr returns several years later and resumes his medical studies, graduating in 1834.



A rendering of the duel, by Erin Dolan



85 Years Ago

In 1923, Theresa Ora Snaith becomes the first woman to graduate from the medical school. Snaith transferred to Maryland from the Women's Medical College in Philadelphia at the end of her second year. She joins a pediatric group practice at Stonewall Jackson Memorial Hospital in Weston, West Virginia, where she practices until her death in 1961.

15 Years Ago

In 1993, Kenneth P. Johnson, MD, professor and chairman of the department of neurology, is the key investigator in a clinical trial that leads to FDA approval of Betaseron, the first drug ever approved specifically to treat Multiple Sclerosis by reducing the number of attacks and delaying the natural course of the disease.



recollections

A look back at America's fifth oldest medical school and its illustrious alumni

1940s

1943D: J. Roy Guyther of Mechanicsville, Md., in December 2007 published his seventh book on local history. **1946: William J. Bannen Jr.** of Simpsonville, S.C., sadly reports that his good friend George Albec has passed away. **James Roberts** and wife Mary Adel of Silver Spring, Md., recently celebrated their 60th wedding anniversary. They were delighted to hear that the class celebrated its 60th reunion in 2006, and they look forward to the 65th in 2011. **1947: E. Anne Mattern** of Rockville, Md., is feeling better after hip revision and an MI. She wants classmates to know that she is working on the latest newsletter to classmates. **1949: George W. Knabe Jr.** of Virginia, Minn., received a lifetime achievement award from the College of American Pathologists.

1950s

1954: Arthur Baitch, of Baltimore retired from his practice of orthopaedic surgery on January 1. Portrait painting, travel, golf, wife Herta, and seven grandchildren keep him very busy. **1955: Murray A. Kappleman** of Baltimore was awarded a lifetime achievement award from the Maryland chapter of the American Academy of Pediatrics. **1956: Mathew H. M. Lee** of New York City has retired as the Howard A. Rusk Professor of Rehabilitation Medicine at the NYU School of Medicine and has assumed emeritus status. In March, he celebrated the release of *Rehabilitation Medicine and Thermography*, a textbook he co-authored, with a reception at the United Nations Delegate Dining Room.

1960s

1961: Michael B. A. Oldstone of La Jolla, Calif., was elected to the National Academy of Science. Oldstone is a professor in the department of immunology and microbial science and department of infectology at the Scripps Research Institute. **1962: Louis C. Breschi** of Baltimore is president-elect of the Catholic Medical Association. **1964: Richard G. Shugarman** of West Palm Beach, Fla., serves as an editor for the comprehensive ophthalmology section of ONE, the American Academy of Ophthalmology's web-based learning center.

This follows the completion of two consecutive three-year terms on the academy's board of counselors. He and wife Rhona celebrated the birth of their third grandchild, and also report that daughter Marcy was married on May 31. **1966: Diane L. K. Acker** of Roslyn, N.Y., reports that she has retired from her solo pediatrics practice and is enjoying her new career since March when Uncle Sam's red, white, and blue card arrived in the mail! **1968: Richard A. Baum** and wife Kathleen of Baltimore report that their daughter was married in Tel Aviv on January 3, and their youngest will be attending Maryland's law school in the fall.

1970s

1972: Ronald T. Staubly and wife Helen of Mt. Pocono, Pa., celebrated their 40th wedding anniversary in February. He will retire as a colonel in the U.S. Army Reserves in August after 30 years, having served in the first Gulf War, Bosnia, and Baghdad in 2003. Son Arasin is in the U.S. Air Force serving in Japan; second son Andrew works for T-Mobile in Los Angeles, and daughter Andreanna is a translator in Hamburg, Germany. **1973: Jo A. Deevey** of Buriem, Wash., since 2005 has been a provider for opiate addiction recovery with Suboxone, a partial opiate agonist with a blocker to prevent consuming competitive drugs. In her opinion it has revolutionized opiate recovery for young addicts and chronic pain sufferers. She is sorry to have missed the 35th reunion in May. **1975: George L. Drusano** of Latham, N.Y., reports that wife Marianne earned her fourth-degree black belt in Shodokan karate. Oldest son Chip, who has Aspergers Syndrome, lives on his own in an apartment and is pursuing a degree in culinary arts. Second son **Michael**, '07, is receiving family medicine residency training at Jackson Memorial Hospital in Miami after taking a year off to volunteer at hospitals throughout Africa. Youngest son Stephen is living in New York City after graduating from Ithaca College. Drusano is co-director of Ordway Research Institute in Albany. They were recently granted two R01s from NIAID

for resistance suppression methodologies for *Pseudomonas aeruginosa* and also for influenza virus. They also received a program project grant on biowarfare from NIAID and another from the Bill and Melinda Gates Foundation for TB therapy.

1980s

1984: Gail Brook Arthur and **Sam Arthur** of Harrisonburg, Va., report that Gail is teaching at James Madison University and Sam is practicing nephrology. They have three children ages 22, 18, and 15. **Joseph C. Eshelman Jr.** of Brecksville, Ohio, is area medical director of northeast Ohio for Concentra Medical Centers. He completed a one-year occupational medicine residency in September 2006 at West Virginia University and earned an MPH from Tulane University in 2003. **Nick Koutrelakos** and **Susan Lancelotta** of Sykesville, Md., report that daughter Lauren wedded Patrick Kelly of Beaufort, S.C., and the couple plans to live there. She is a 2004 alumna of Clemson University School of Architecture. **1985: Victoria Mossman-Van Eendenburg** of Bloomington, Minn., reports that daughter Deborah Jane will be attending college in the fall, daughter Hannah is the varsity soccer captain, and husband John continues flying for Northwest Airlines. **S. J. Schoenfelder** of Lewisburg, Pa., reports that he is feeling old with two children in college at NYU and MIT. **1986: Julia Ann Williams** of Sedona, Ariz., continues to breed and train golden retrievers as service animals. **1987: D. V. Woytowicz** of Port Charlotte, Fla., reports that he and his family completed a year of travel to a number of states—including Alaska—as part of his sabbatical and their home schooling. **1988: Ira Chang** of Evergreen, Colo., is a neurologist with Blue Sky Neurology, a group practice. Husband William opened a restaurant "Sammy's Last Cast Tavern." Daughter Paige is six years old and son Grayson is three. **1989: Merdad V. Parsey, MD/PhD** and wife Christina of San Carlos, Calif., proudly announce the birth of Sam, their second child, in October 2007.

1994: Alexis M. Elward of Webster Groves, Mo., a pediatric infectious disease specialist at St. Louis Children's Hospital, is credited with leading the initial investigations resulting in the recall of the drug Heparin. Elward quickly mobilized a team of investigators and alerted authorities after investigating severe allergic reactions in two children undergoing dialysis. ♦ **Kathleen M. Flores-Dahms** of San Diego enjoys being a part-time radiologist and full-time mother of Makaylee, age four, Malina, age two, and Mathias, age one. **1995:** Mitesh Kothari and wife Erin of Hagerstown, Md., report that sons Kendall, age eight, Jack, age six, and Ryan, age one, are doing well, and they invite classmates to contact them when passing through the area. **1997:** Andrew Morton of Owings Mills, Md., is chief of diagnostic imaging at Howard County General Hospital in Columbia. ♦ **Janine Smith** of Washington, D.C., is director of pediatric ophthalmology and strabismus at Howard University Hospital. **1998:** Timothy J. McAveney of Irvine, Calif., practices cardiology. He and wife Jenn have two children—Haley, age four, and Ian, age two. Despite their best efforts a third is on the way, and the family now looks forward to his or her arrival later this summer. ♦ **Mary Goyer Shapiro** of Salt Lake City reports that husband Mike is teaching his first course in developmental biology at the University of Utah. Son Drew is two years old and loves trucks and trains. Shapiro enjoyed visiting with classmate **Herlene Chatha** at the American Academy of Pediatrics conference in San Francisco last October. **1999:** Carolyn M. Warner, husband Christopher, and five children are enjoying country living in Richmond Hill, Ga. Warner is now a civilian in practice after nine years with the U.S. Army.

2000: Mohsin A. Husain of Centreville, Va., has been with Virginia Radiology Associates for two years. He and Abida have two boys, Maajid, age six, and Raashid, age four. ♦ **Phillip B. Marshall** of Silver Spring, Md., married Ayesha Allen, MPH, on September 15, 2007. ♦ **Kelly L. Miller** and **Mark Flasar** of Baltimore have joined Maryland's faculty. Kelly is attending after completion of training in interventional cardiology, while Mark is in GI. **2001:** Ayanna Beard has returned to the Washington, D.C., area and is working for Unity Healthcare, serving the uninsured and under-insured. This follows three years at Baylor College of Medicine in Houston where she worked in the department of family and community medicine. ♦ **Vanessa Lima** lives with husband Matthew and sons Desmond, age three, and Emmett, age one, in Columbia, Md. She works at the Columbia JHU Wilmer Eye Institute where her special interests include eyelid, tear drainage, and orbital disease. **2003:** Sachin Kalyani and wife Rita of Baltimore proudly announce the birth of son Shaan on February 13. ♦ **Karen Sutton** is a fellow in sports orthopaedic surgery at Massachusetts General Hospital in Boston, following residency training in orthopaedic surgery at Yale. She and Gregg Wysocki were married last October. **2005:** Jennifer A. Roth has begun a sports medicine fellowship at the Mayo Clinic in Jacksonville, Fla. **2006:** Robert R. Redfield and wife Amy of Wynnewood, Pa., welcomed their second daughter, Riley Grace, on April 26. 🏠

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pediatric surgeons, **nutritionists** and **radiologists**, is needed to help care for these children.

Harry S. Gimbel, '36

Baltimore

April 27, 2008

Upon graduation, Dr. Gimbel trained in family medicine at West Baltimore General Hospital and Sydenham Hospital for Contagious Diseases. While training at Sydenham, he and two colleagues were successful in treating patients suffering from pneumococcal meningitis with sulfapyridine and reported their results in the *Journal of the American Medical Association* in 1939. Later that year Gimbel opened a private practice on Edmondson Avenue and later in Catonsville where he cared for his patients until retirement in 1993. He enjoyed golf and is survived by wife Sylvia, three children including **Joseph, '67**, eight grandchildren, and seven great-grandchildren.

Leonard J. Levinson, '37

Sarasota, Fla.

March 10, 2007

Edmund G. Beacham, '40

Timonium, Md.

May 27, 2008

After graduation Dr. Beacham began training at Baltimore City Hospitals but was called into active duty in 1941 with the U.S. Army. As regimental surgeon in the 175th Infantry Regiment of the 29th Infantry Division, he arrived in France on D-Day plus one where his unit treated thousands of wounded soldiers. Later, Beacham was wounded in battle and received the Bronze Star with an oak leaf cluster and a Purple Heart. After fulfilling his military commitment, he returned to Baltimore and completed residency training in internal medicine at City Hospitals. He remained at City Hospitals (which became Hopkins Bayview) for his entire career, serving as chief of the tuberculosis department and later chief of chronic disease, community medicine, and geriatrics. In 1966, he received a citation from the governor for his persistence in promoting the employment of the handicapped. Academic appointments included assistant professor of medicine at both Maryland and Johns Hopkins, and he also served as president of the Maryland Tuberculosis Association.

Beacham continued his military ties until 1982 when he retired as a brigadier general from the Maryland National Guard. He retired from the practice of medicine in 1984. In 1992, he was cited by the American Geriatrics Society for distinguished service. Together with classmate **Ross Pierpont**, Beacham organized his class reunion every five years and was a frequent caller during the annual phonathon from Davidge Hall. His volunteer efforts diminished after he suffered a stroke in September 2002. Beacham is survived by wife Carolyn, two children including son **Bruce E., '75**, and one grandchild.

I. Carlton Brinsfield, '40

Cumberland, Md.

February 15, 2008

Dr. Brinsfield trained in general surgery at Maryland General Hospital. From 1942 to 1946, he served in the U.S. Army during World War II, stationed at a hospital on Ascension Island in the Atlantic and for a short period on the hospital ship *Shamrock* in Italy. In 1948, he opened a private surgical practice in Cambridge but the following year went back into the military, serving with the U.S. Air Force as chief of surgery at Shepherd Air Force Base in Wichita Falls during the Korean Conflict. He eventually retired from the Air Force as a Lt. Colonel. Brinsfield returned to Maryland and after a brief stay in Baltimore relocated to Cumberland in 1954 where he stayed in practice until retirement in 1984. He was on-call physician for Pittsburgh Plate Glass, was a volunteer team physician for the Fort Hill freshman and junior varsity teams, the Cumberland Area Youth Football League, as well as the 4H. He enjoyed farming on his John Deere tractor. Brinsfield is survived by wife June, two daughters, two sons, and six grandchildren.

Samuel V. Tompakov, '40

Baltimore

April 6, 2008

Sinai Hospital in Baltimore was the site of a mixed internship served by Dr. Tompakov upon graduation, followed by one year as an assistant resident in medicine at St. Joseph's Hospital and one year as resident in

medicine at Lutheran Hospital. From 1943 until 1945 he served in the armed forces, rising to chief of the cardiovascular section at William Beaumont General Hospital in El Paso, Texas. Tompakov then returned to Baltimore where he opened a private practice of internal medicine and cardiology. He was board certified in internal medicine and was on the staffs of Sinai and Baltimore County General hospitals. He retired in 1992. Tompakov was preceded in death by wife Ethel and son **Harvey, '71**, and is survived by companion Deborah Blank, one daughter, eight grandchildren including **Andrew Salama, '02**, and four great-grandchildren.

Frank S. Parrott, '43M

Salisbury, N.C.

March 11, 2007

After an internship at Maryland, Dr. Parrott served as a captain in the Army Medical Corps for two years before returning to Baltimore's City Hospital for residency training in surgery. He then entered private practice in Mt. Airy, but moved to Davis Hospital in Statesville just nine months later after the Mt. Airy hospital burned down. He relocated to Salisbury in 1954 where he remained until retirement in 1985. Upon retirement, Parrott enrolled at Rowan-Cabarrus Community College where he completed courses in woodworking and later made furniture for family and friends. He enjoyed fishing, hunting, and shooting skeet and trap. Parrott is survived by wife Miriam, two daughters, two grandchildren, and three great-grandchildren.

Henry W. D. Holljes, '44

Towson, Md.

May 2, 2008

Dr. Holljes was preceded in death by wife Irene and is survived by seven children and 13 grandchildren.

Frank J. Ayd Jr., '45

Lutherville, Md.

March 17, 2008

Dr. Ayd interned at St. Joseph's Hospital in Baltimore and received residency training in psychiatry which was completed at the U.S. Veteran's Hospital in Perry Point, Md. He

in memoriam

began his career when psychiatric patients were treated with psychoanalysis and electroconvulsive therapy, and he soon began experimenting with drugs to treat these patients. He opened a private practice in 1950, and three years later through Smith Kline & French began evaluating Thorazine as a treatment for patients suffering from delusions. He later received the first permit from the FDA to use the drug in the treatment of schizophrenia. Later in the 1950s, Ayd founded the International Drug Therapy Newsletter in which he reported his findings. He was also a founder of the American College of Neuropsychopharmacology. From 1955 until 1962, Ayd was chief of psychiatry at Franklin Square Hospital. He then began lecturing in Europe, becoming the first lay professor at the Pontifical Gregorian University in Rome and from 1962 to 1965 hosted a weekly show on religion and science on Vatican Radio. He returned to Baltimore to resume practice and served as director of professional education and research at Taylor Manor Hospital from 1969 to 1986. Ayd retired in 2003 and was author of *Recognizing the Depressed Patient*, two editions of *Ayd's Lexicon of Psychiatry, Neurology and Neuroscience*, and he contributed to three editions of *Principles & Practice of Psychopharmacotherapy*. He was the 2003 recipient of the Medical Alumni Association's Honor Award & Gold Key, awarded for outstanding contributions to medicine and distinguished service to mankind. Ayd is survived by wife Rita, five sons, seven daughters, 32 grandchildren, and 38 great-grandchildren.

George S. Callender Jr., '45
Easton, Maryland
December 2007

Dr. Callender remained at Maryland for his internship before serving two years in the U.S. Medical Corps., at Oliver General Hospital in Augusta, Georgia. He resumed his civilian training in 1948 at Emory University, performing a surgical internship and residency. This was followed by an orthopaedic residency at Charleston General Hospital in West Virginia. Upon completion of training, Callender remained in West Virginia,

working at Charleston Area Medical Center from 1952 to 1980. From 1972 to 1978, he served as the center's first chairman of orthopaedic surgery and became an associate clinical professor at West Virginia University School of Medicine. He was a member of the American Academy of Electromyography and Electrodiagnosis and worked in this capacity at the Memorial Hospital in Easton from 1980 to 1986. Callender enjoyed golf, tennis, and fishing. He was preceded in death by wife Helen and is survived by two children.

Jack H. Powell Jr., '47
Newnan, Ga.
April 20, 2008

Emory University was the initial site of Dr. Powell's surgical training after graduation, but he also spent time at Ft. Benning during the Korean War, and finished at the University of Tennessee. He became the first boarded general surgeon in Newnan when he moved there to open a private practice. He instigated modern anesthesia and surgical practices at Newnan Hospital and pioneered new surgical techniques to care for patients, including the first vascular and orthopaedic procedures. Powell worked in Newnan for 45 years, served as a founding member of the PAPP Clinic, and served as president of the Georgia Surgical Society. He also served as a board member for Citizens Bank, Southern Bank, and Newnan Federal Savings and Loan. He was preceded in death by wife Margaret and one granddaughter and is survived by three sons, two daughters, and 15 grandchildren.

Roland D. Matthews, '48
Burlington, N.C.
February 16, 2008

Alfred A. Filar Jr., '58
Glen Arm, Md.
April 13, 2008

Upon graduation, Dr. Filar interned at Mercy Hospital in Baltimore and received residency training in general surgery at Bon Secours Hospital. This was followed

by three years of additional training in ophthalmology at the Baltimore Eye, Ear and Throat Hospital. After working in a joint practice, Filar opened his own office on Park Avenue where he specialized in retina care. He taught at the Greater Baltimore Medical Center and Maryland General Hospital where he served as chief of ophthalmology for 17 years. Filar retired in 2006. He was a member of the Baltimore Road Runners and competed in several road races including the Boston Marathon seven times. Filar was a member of the Yacht Club and sailed in Wednesday evening races in Middle River with the GlenMar Racing Club. He also enjoyed polka dancing. Filar is survived by wife Sue Ellen, one son, three daughters, two stepchildren, and two grandchildren.

Celia A. Kramer, '74
Potomac, Md.
May 2, 2008

Dr. Kramer received residency training in internal medicine and a fellowship in gastroenterology at the Washington Hospital Center in Washington, D.C. She ran the medical clinic and served as vice chair for the section of internal medicine at the Washington Hospital Center until 1984 when she became an internist with the Group Health Association. She returned to Washington Hospital Center ten years later as an internist and also worked for associates in Medicine, owned by Arlington Hospital and Columbia Health Care. She retired in 1998. Kramer enjoyed annual ski trips and served as treasurer for the Capital Golden Skiers. She also enjoyed European travel, became fluent in French and Spanish, and was a member of Just in Time—an a cappella singing group. She is survived by husband Robert, two daughters, and two granddaughters.

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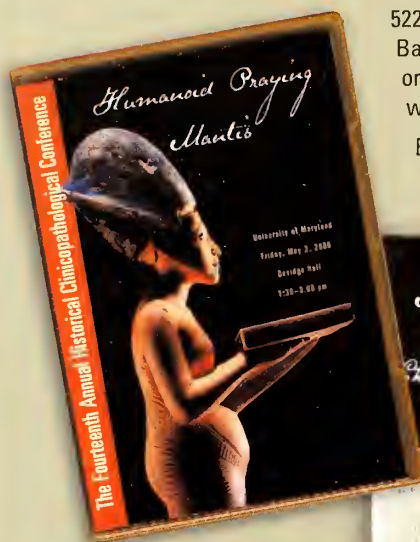
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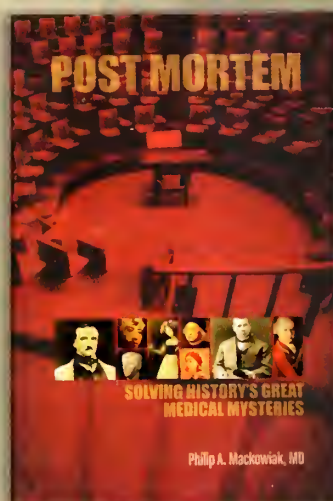
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134th Medical Alumni Association Reunion *May 1-3, 2009*

Friday, May 1

8:30-10:30 am	Open House, Check-in & Continental Breakfast
9:00-9:45 am	Financial, Retirement, & Estate Planning
10:00-11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am-1:15 pm	134th MAA Luncheon & Business Meeting, Westminster Hall
1:30-3:00 pm	15th Annual Historical Clinicopathological Conference
1:30-3:30 pm	Afternoon Check-in, Davidge Hall
3:30-4:30 pm	School of Medicine Tour
6:30-9:30 pm	The MAA Crab Feast, Baltimore Museum of Industry

Sunday, May 3

10:00 am-1:00 pm
Brunch with the Dean,
The Reginald F. Lewis
Museum of Maryland
African-American
History & Culture

Saturday, May 2

8:00 am-1:30 pm	Open House & Check-In
8:30-10:00 am	Continental Breakfast, Davidge Hall
9:00 am-1:00 pm	Excursion to U.S. Naval Academy, Annapolis, Md
10:00-11:00 am	Campus Walking Tour
11:00-11:45 am	Restoring Davidge Hall: An Update
11:30 am-2:00 pm	Complimentary Picnic, Davidge Hall
1:00-1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00-2:30 pm	Baltimore City Land & Sea Tour I
1:35 pm	Baltimore Orioles Baseball
Afternoon/Evening Class Reunions (years ending in "4" and "9")	

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Surgeons comprising Maryland's transplant teams are leading the field with some of the most difficult procedures, including heart-liver, pancreas-kidney, "domino" liver transplants involving two recipients, and composite tissue allografts.

Cancer Center Gets Top Billing 15

The Marlene and Stewart Greenebaum Cancer Center is now one of 64 centers with accreditation from the National Cancer Institute. The designation credits the work of Kevin Cullen, MD, director of the center, as well as his researchers and clinicians.

The Medical Alumni Association Honor Roll 18

Alumni, Faculty, and Friends who supported the medical school with gifts to the Medical Alumni Association between July 1, 2007 and June 30, 2008 are recognized in this report, including members of the John Beale Davidge Alliance, the school's most generous donors.

Alumna Profile: Donna Hanes, '92 40

The Human Touch

Donna Hanes, '92, at the age of five, informed her parents that she would become a doctor when she grew up. She imagined working in the relaxed setting of a small town in the country. As it turns out, Hanes was only half right, and the medical school, its students, and her Baltimore patients are eternally grateful.

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E. Albert Reece, MD, PhD, MBA
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To whom much is given, much is expected! The University of Maryland School of Medicine is in the fortunate position of having strengths in a variety of clinical and research areas. It is therefore our responsibility to exercise leadership at home and abroad in our continued effort to eradicate disease and prevent human suffering.

In the spring issue of this magazine, my message focused on our global leadership and our long history of significant contributions to global health, through research, health care delivery, outreach and public policy. Our scientists and clinicians carry out extensive epidemiologic, clinical and laboratory research in 32 countries, such as Chile, China, India, Israel, Mali, Malawi, Mexico and Nigeria, among others. While the role we play in the global arena is extremely important to the future of the medical school and the health of the world's most vulnerable citizens, our national impact is surely just as important.

Top-tier medical schools must exercise leadership and make contributions to the greater good. The University of Maryland School of Medicine, itself a top-tier medical school, has been extremely fortunate. In the last two decades, our research portfolio has more than quadrupled, our clinical revenues have grown by eight times, our endowment growth has sextupled, and our economic impact is over \$1.5 billion annually. This reflects only our medical school and not the medical center and its affiliated hospitals. However, we must not rest on our laurels. We must use our position to impact positively our nation and our world, and we must emphasize repeatedly the importance of assuming leadership positions and participating in working toward the greater good.

At this year's Association of American Medical College annual meeting in San Antonio, I will be privileged to begin my term as chair of the council of deans (COD). The purpose of the COD is the continuing improvement of the nation's medical school organizations. The council, comprised of deans of American medical schools, identifies issues affecting academic medicine and develops strategies to achieve the various missions of medical schools. The council addresses policies guiding the AAMC in its service and advocacy functions; programs for the advancement of institutional management; and support for the deans' leadership roles in guiding individual schools toward excellence in medical education, research and patient care, and, of course, service.

The AAMC is, and always has been, extraordinarily good at advocating for medical education issues. The focus of my term as chair will be to emphasize greater research advocacy and to position research and discovery as the future of medicine, and the critical elements for improving the health of our nation and the world.

In the last two decades, our research portfolio has more than quadrupled, our clinical revenues have grown by eight times, our endowment growth has sextupled, and our economic impact is over \$1.5 billion dollars annually. This reflects only our medical school and not the medical center and its affiliated hospitals.

I am pleased that many of our faculty also heed the call to national service, and I applaud them. For example:

Stephen T. Bartlett, MD, Barbara Baur Dunlap Professor and chair, department of surgery, is president-elect of the International Pancreas and Islet Transplant Association.

Meredith Bond, PhD, professor and chair, department of physiology, was named president-elect of the Association of Chairs of Departments of Physiology.

William T. Carpenter, MD, professor, department of psychiatry, and director, Maryland Psychiatric Research Center, currently serves as past-president of the American College of Neuropsychopharmacology.

Vincent D. Pellegrini, MD, James Lawrence Kernan Professor and chair, department of orthopaedics, is first president-elect of the American Orthopaedic Association and will serve as president from June 2009 to June 2010.

Mary Rodgers, PT, PhD, George R. Hepburn Dynasplint Professor and chair of physical therapy and rehabilitation science, just completed service for the International Society of Biomechanics as council member, president-elect, president, and past president.


Miriam G. Blitzer, PhD, professor, department of pediatrics, and head, division of human genetics, is president-elect of the Association of Professors of Human and Medical Genetics.

Mandeep Mehra, MD, professor, department of medicine, and chief, division of cardiology, is president of the International Society for Heart and Lung Transplantation.

Robert A. Vogel, MD, professor, department of medicine, is co-chair of the National Football League Committee on Cardiovascular Risk.

Larry D. Weiss, MD, JD, FAAEM, professor, department of emergency medicine, was elected to a two-year term as president of the American Academy of Emergency Medicine.

Jill Whitall, PT, PhD, professor, department of physical therapy & rehabilitation science, was elected president of the North American Society for the Psychology of Sport and Physical Activity.

These are just a few national leaders at our medical school who have come to my attention in recent weeks. There are many more inspiring leaders at the University of Maryland School of Medicine, and I know that many of our alumni also participate in leadership activities at the national level. I salute all of you who already give of yourselves to make the world a better and healthier place. I encourage the rest of you to consider the impact you, too, can make. One certainly does not have to participate on a national level to make an impact—leadership starts in our neighborhoods and communities and grows from there. 



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs, University of Maryland
John Z. and Akiko K. Bowers Distinguished Professor and Dean
University of Maryland School of Medicine

*I salute all of you who already give of yourselves
to make the world a better and healthier place.*

EVENTS

Alumni & Faculty Unite at NMA Reception in Atlanta

Dean E. Albert Reece, MD, PhD, MBA and MAA regional vice president **Robert M. Phillips, '82**, co-hosted a reception in Atlanta for more than 70 alumni, faculty, and friends of the medical school on July 28. The event ran in conjunction with the National Medical Association's annual meeting. Attendees also included former dean **Donald E. Wilson, MD, MACP**, MAA vice president **Otha Myles, '98**, board member **Charlotte Jones-Burton, '99**, as well as **Elijah Saunders, '60**, professor and head of Maryland's division of hypertension. The reception was staged at the Westin Peachtree Plaza.



Robert M. Phillips, '82, Sharon Saunders, Elijah Saunders, '60, M. Keith Rawlings, '83, and Charlotte Jones-Burton, '99

EVENTS

Mini Medschool for Kids

More than 30 children between the ages of five and 16 got a taste of medical school during the months of July and August when Maryland held its second annual Mini-Med School for Kids at the Salvation Army's Franklin Square Boys & Girls Club summer camp in West Baltimore.

Mini-Med School for Kids targets children from our underserved community in hopes of delivering key messages about important and very relevant health and lifestyle issues. The program was started in 2007. The event began on July 9 with a lesson for the older campers about sexually transmitted infections and HIV. It was led by **Ligia Peralta, MD**, associate professor of pediatrics and chief of the division of adolescent medicine. It continued each Wednesday over the next five weeks, covering such topics as diabetes, obesity and nutrition, stress relief and anger management, asthma, smoking, drug & alcohol abuse and addictions, and heart health and exercise. It ended August 13 with a visit to the medical school, where the campers had a lesson in anatomy from **Ronn Wade**, director of the Maryland State Anatomy Board and head of the medical school's anatomical services division.



Ligia Peralta, MD

EVENTS

Medical Center Receives Five "Top 50" Rankings by Magazine

The *U.S. News & World Report* has again published its rankings of U.S. hospitals and the University of Maryland Medical Center was given five "Top 50" rankings. Maryland was ranked 26th in kidney disease, 32nd in urology, 34th in ear, nose, and throat, 48th in cancer, and 49th in heart. The weekly publication has ranked America's best hospitals for 19 years, taking into account reputation, death rates, nursing, and patient services.



Smoking Increases Risk of Stroke for Young Women

Maryland researchers have found that the risk of stroke among young women increases the more they smoke.

That is the key finding in a study published in the August 14 edition of *Stroke: Journal of the American Heart Association*.

"We studied the risk of stroke for women under age 50, and we found that the more cigarettes they smoked, the more likely they were to have a stroke," says **John Cole, MD, MS**, assistant professor of neurology. "Among women who smoked 40 or more cigarettes a day, the stroke risk increased more than nine times over that of a non-smoker. But we found that any smoking at all more than doubles the risk of stroke."

This study is one of the first to examine the relationship between higher rates of smoking and ischemic strokes—those caused by a blockage in the brain circulation—in an ethnically-diverse group of young women. It is part of Maryland's on-going stroke prevention in young women initiative, in which researchers are looking at genetic and non-genetic risk factors for stroke.

In their analysis, researchers obtained the smoking history of a group of more than 400 African-American and Caucasian women between the ages of 15 and 49 who had suffered an ischemic stroke. After face-to-face interviews, the researchers classified the women into three groups: current smokers, former smokers and




never smokers, defined as women who had not smoked more than 100 cigarettes in their lifetime. Former smokers had smoked more than 100 cigarettes, or five packs, in their lifetime but had not smoked in the month prior to their stroke.

The team compared the smoking rates to a control group of women with similar age, race and ethnicity who had not

suffered a stroke. Former smokers and never smokers showed no difference in their risk of stroke compared to each other; however, the number of cigarettes smoked by the current smokers revealed a significant number-related increase in risk:

1–10 cigarettes per day = 2.2 times increased stroke risk
 11–20 cigarettes per day = 2.5 times increased stroke risk
 21–39 cigarettes per day = 4.3 times increased stroke risk
 40 or more cigarettes per day = 9.1 times increased stroke risk

Almost 120,000 women and 105,000 men in the United States under the age of 45 have suffered a stroke, which is the nation's leading cause of disability and third leading cause of death. The researchers plan to conduct a similar study for stroke and smoking in younger men. 



John Cole, MD, MS

[Save the Date!]

Reede to Speak at Diversity Dinner

Joan V. Reede, MD, MPH, MEd, and her diversity and community partnership and director of the minority faculty development program at Maryland, Dr. Reede, will be speaking at the annual medical school's annual Celebrating Diversity dinner on Saturday, February 2, 2008. The event will be held at the Hyatt Regency Baltimore at the inner Harbor. Tickets are \$100 per person. Admission is free for students, and Reede is the special guest for students to attend. Watch the email for your invitation.

Transitions



Edmond F. Notebaert

Notebaert Retires as CEO of UMMS

Edmond F. Notebaert, president and chief executive officer of the University of Maryland Medical System since September 2003, retired on August 1. Under Notebaert's leadership, UMMS became the third largest employer in the Baltimore metropolitan area. Hospitals within its network now include the University of Maryland Medical Center, Kernan Hospital, University Specialty Hospital, Maryland General Health Systems, Baltimore Washington Medical Center, Shore Health System Hospitals, Chester River Health System and Mt. Washington Pediatric Hospital, which is owned in partnership with Johns Hopkins.

A search committee is expected to be appointed shortly to find a successor. Until then, **Robert A. Chrencik**, executive vice president and chief financial officer since 1999, is serving as interim president and CEO. Chrencik has been with the medical system since its creation in 1984 and became its chief financial officer in 1987.

Prior to joining the medical system, Chrencik was a senior manager in health care consulting at KPMG Peat Marwick, as well as a supervisor in the accounting and audit practice at Coopers & Lybrand in Baltimore. He earned a BS, summa cum laude, from Bucknell University and an MBA from Loyola College of Maryland. Chrencik served as president of the Maryland chapter of the Healthcare Financial Management Association and serves on the financial policy committee of the Maryland Hospital Association.

UMMS generates nearly \$3.5 billion in economic activity in Maryland. It has 14,800 employees, more than 1,700 licensed beds, 83,000 annual admissions and gross patient revenues of \$2 billion.



Robert A. Chrencik

Standiford Retires



Harold C. Standiford, '64, a member of the faculty since 1971, has stepped down to part-time status from his position as medical director for infection control and antimicrobial effectiveness at the medical center and professor of medicine at the medical school.

After two years of training at Maryland, Standiford headed for the University of Washington in Seattle for completion of his residency as well as fellowship training in infectious diseases. His military commitment was served in the U.S. Air Force and included a year in Vietnam. He then returned to Maryland and the Baltimore VA Medical Center in 1971. His area of research was in the laboratory and clinical evaluation of antimicrobial agents emphasizing the invitro and pharmacokinetics of antimicrobial combinations for the treatment of the septic granulocytopenic patient. Also, he delved into MRSA eradication and treatment and prevention of endocarditis. He was the principal investigator for the AIDS clinical trials scientific coordinating unit sponsored by NIAID. In addition to attending on the medical and infectious disease services, he was the coordinator for the correlative sessions on antimicrobial agents for the pharmacology and therapeutics course given to sophomore students for a number of years. In 2000, Standiford retired from the VA and became medical director for infection control and antimicrobial management at the medical center.

Standiford was elected governor of the Maryland chapter of the American College of Physicians from 1994 to 1998. He continues to serve on the Maryland chapter council and was honored by receiving the Samuel P Asper Award for Clinical Excellence given by the chapter. He is a master of the American College of Physicians. Standiford has written more than 100 manuscripts, chapters, and reviews. He plans to spend more time at home, but will continue to attend in infectious diseases as well as write about some of his experiences in infection control and antimicrobial management.




Bonatti Joins Maryland

Johannes Bonatti, MD, a heart surgeon recognized as one of the world's most experienced in minimally invasive coronary operations using the DaVinci robot, has joined Maryland as professor of surgery at the medical school and cardiac surgeon at the medical center.

Bonatti has performed 300 robotic heart surgeries, most of which were completely endoscopic. Some 240 were coronary artery bypass operations, and among these 30 were double-artery bypass operations. With the minimally invasive endoscopic technique, patients can return to usual activities and light exercise after about two weeks instead of spending 2–3 months recovering after traditional bypass surgery.

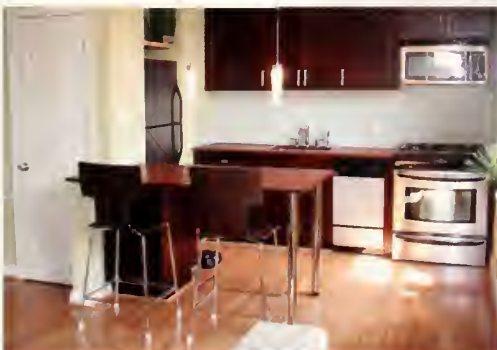
Bonatti joins Maryland from Innsbruck University Hospital in Austria, where since 1998 he had been an attending cardiac surgeon and associate professor of surgery. For the past six years, he also directed the heart surgery research laboratory at Innsbruck Medical University.

A 1986 graduate of Innsbruck, Bonatti performed a variety of clerkships and internships in Austria and in South Korea. He did part of his surgical residency at the Medical College of Virginia in Richmond in 1989. He started a program in minimally invasive cardiac surgery in Innsbruck in 2001 and has participated in FDA-sponsored studies of the robotic approach to coronary artery bypass surgery. 

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Key Receptor Identified in Celiac Disease

A new study from researchers at Maryland's center for celiac research answers a fundamental question relating to the cause of celiac disease and possibly other autoimmune disorders such as Type I diabetes and multiple sclerosis.

People with celiac disease must not eat foods containing gluten, a protein found in wheat. For them, gluten triggers an autoimmune response in which the immune system attacks the body, leading to a wide spectrum of serious health problems.

The new study, published in the July 2008 issue of the journal *Gastroenterology*, identifies the key gluten receptor in the intestine that opens the gateway through which gluten enters the body and triggers a faulty immune response in celiac patients. The receptor, called CXCR3, is critical to the early stages of the faulty immune response. Pinpointing it could help doctors treat celiac disease more effectively, according to **Alessio Fasano, MD**, professor of pediatrics, medicine and physiology and medical director of the center.

"This is a scientific question that had never been answered before," Fasano says. "It is not only significant in the basic science of autoimmune disorders such as celiac disease, but in therapeutic approaches for the future. This opens a new scientific paradigm for the study of immunity."

There are three key components of celiac disease, according


to Fasano. One is genes, and researchers have already identified a number of genes that seem common among celiac patients, but none that are consistently found in all patients.

The second component is the environmental trigger that leads to the autoimmune attack. Triggers have remained elusive for all autoimmune diseases except celiac disease, in which gluten is the undisputable trigger.

The third component is a leaky gut, wherein the barrier of the intestine becomes permeable enough to allow the offending antigen—in this case gluten—to come through.

Researchers at the center found that gliadin, the component of gluten that proves problematic for celiac patients, binds to the CXCR3 receptor. This interaction between gliadin and CXCR3 triggers the release of a human protein called zonulin, which opens up the

intestinal barrier to make it more permeable. In healthy patients, this effect is temporary. In celiac patients, the effect is long-term, and the results can be devastating.

The findings may be significant for other autoimmune disorders as well. The same process may occur in patients with Type I diabetes and multiple sclerosis, in which the intestines are the port of entry or the pathway through which the offending antigens in these and other autoimmune disorders get into the body, according to Fasano. 



Alessio Fasano, MD

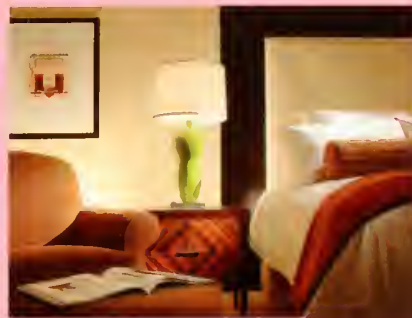


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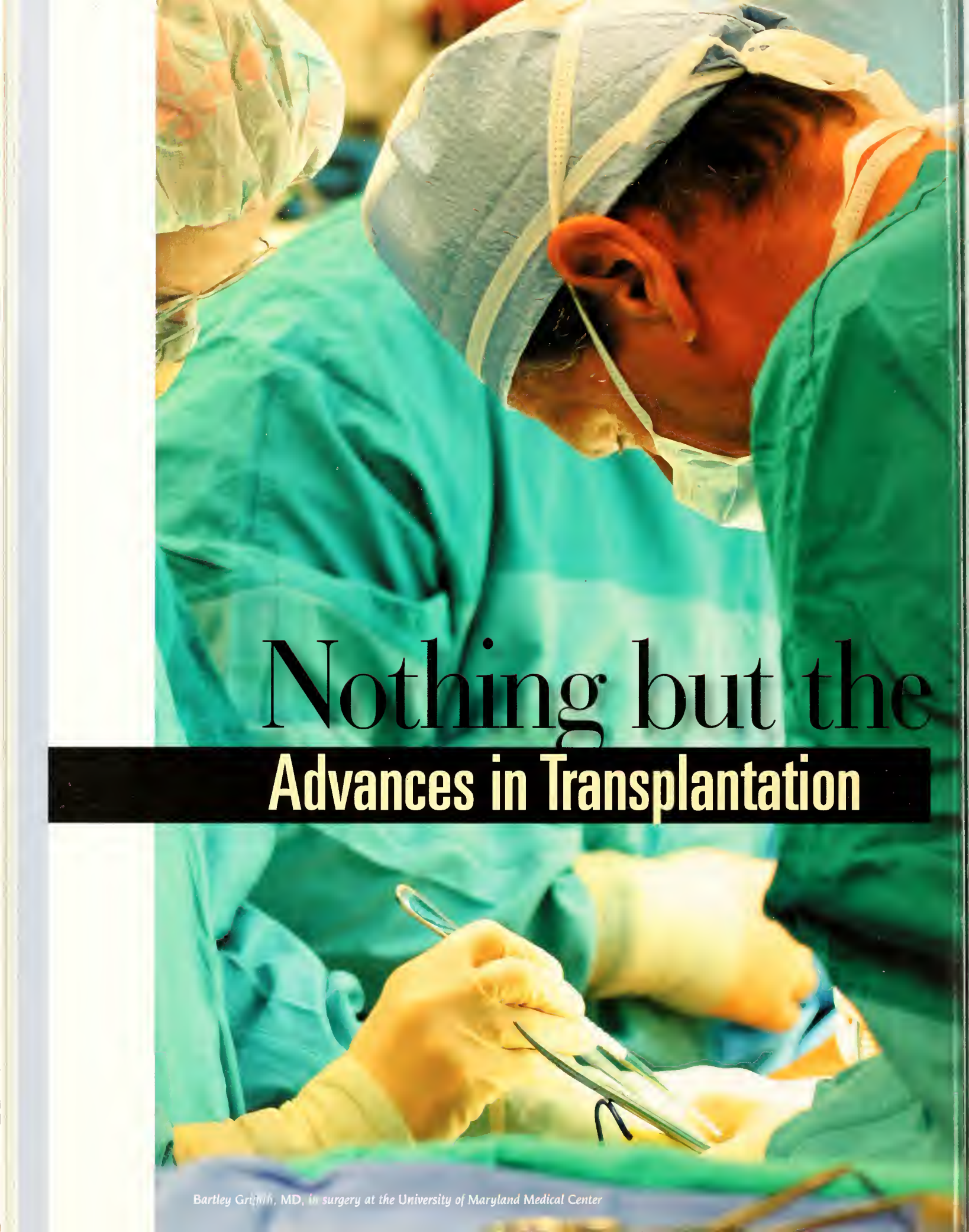


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Nothing but the Advances in Transplantation

Bartley Griffith, MD, in surgery at the University of Maryland Medical Center

By Rita M. Rooney

When it comes to a combined heart-liver transplant, success demands more than innate judgment and consummate surgical skill. It takes passion, the kind that rejects the very word "impossible," the kind that challenges the unknown, and vigorously tackles being first, being best.

Just a year ago, 15 members representing two transplant teams at Maryland performed the first such surgery in the state, and only the 53rd to be done in the country. The patient, a 33-year-old man, would have faced certain death had he not received both a new heart and new liver. He had been referred to Bartley Griffith, MD, chief of cardiac surgery, and director of cardiac transplantation, who had assisted in the world's first few heart-liver transplants.

Best:

"The clinical team in transplantation at this university is world-class and more than capable of performing the tricky double transplant," Griffith says.

He explains that restrictive cardiomyopathy causes the heart muscle to become stiff, preventing the heart from filling with blood and pumping it forward into the body. Instead blood fills the liver, leading to liver failure. In the complex world of organ transplantation, a single transplant of either heart or liver is precarious. Doing both simultaneously is one of medicine's double whammies that can only be approached by a team buoyed by the confidence of experience and intuitive skill. In this case, the school's division of transplantation partnered with the cardiac division's transplant team to perform the double procedure necessary to save a life.

Benjamin Philosophie, MD, associate professor of surgery and chief of the transplant team explains, "The trans-

planted heart has to be strong enough to withstand the stress of the liver transplant. It takes an incredible amount of coordination among team members. There is no way of knowing when a donor with both a healthy heart and liver will be available; so the team has to be ready at all times."

After the two organs have been removed from the donor, the heart transplant begins. Finally, the liver is transplanted. From beginning to end, the entire procedure can take almost 24 hours. Because the patient is on a heart-lung machine during the surgery, blood thinners are used. This sets up a high risk of excessive bleeding. Luis Campos, MD, assistant professor of surgery and the team member who performed the liver transplant in that first combined procedure, recalls, "It was like sailing in uncharted waters."

Campos and the team proved to be more than competent sailors, however, since the surgery was successfully completed with only minimal blood loss and little variation in blood pressure. The patient was released from the medical center in two weeks time, and has been able to resume a healthy lifestyle. Less than a week later, the transplant teams were called into action for a repeat performance of the same surgery, this time for a patient suffering from amyloidosis, a disease in which a protein forms in the liver and destroys both the liver and the heart.

Surgeons who comprise the school's transplant teams are leading the field with some of the most difficult procedures—from simultaneous pancreas-kidney transplants to "domino" liver surgeries involving a deceased donor and two recipients, plus advanced procedures for lung and cardiac transplantation. Added to that is extensive research including pre-clinical studies offering new hope for facial and other composite tissue transplants.

Quality of Life Decisions

Most people with Type 1 diabetes become diabetic at an early age and face a lifetime requirement of insulin. After living with the disease for 20 years, 40 percent of patients

suffer kidney failure and need dialysis. Many will require a transplant. Today, depending on the severity of their disease, patients have a choice. They may opt for a kidney transplant and be placed on a waiting list, or they can search for a living donor.

Stephen T. Bartlett, MD, professor and chair, department of surgery, reports that following a combined pancreas-kidney transplant, patients return home in about seven days, off dialysis and their kidney failure cured. He says studies on the impact of kidney transplantation report dramatically improved quality of life. "This is one of the most gratifying parts of my work, seeing the changes in a patient's life" Bartlett says. "I have seen grown men cry from the emotion of having a lifelong disease cured. No longer do they face the personal investment in self care, managing their diabetes, or having to submit to the rigors and limitations of dialysis."

For many, however, there is an even better option—a laparoscopic living donor transplant. Having performed more than 1,200 of these procedures since 1995, the team is the unqualified world leader in the surgery that minimizes the medical trauma for donors, and benefits patients by negating the necessity of waiting for a deceased donor kidney. The living donor need not be a relative. Even age doesn't disqualify a donor. Philosophe points out one recent donor was 74 years old. "We look at the overall condition of the kidney donor, not just their age," he says.

Historically, patients requiring transplantation hesitate to ask a family member or friend to donate an organ because of the discomfort and possible lengthy recuperative time. However, the living kidney donor has the organ removed laparoscopically through several small incisions. No muscle is split, meaning that healing is fast, and the donor can leave the hospital within 24 hours.

Some patients will require more than a kidney transplant however. In spite of rigid self management of their disease and care by an endocrinologist, they have serious secondary complications that may include retinopathy leading to blindness or loss of muscle control. For them, transplanting both the kidney and pancreas simultaneously is possible. In cases in which a living kidney donor is available, either simultaneous or separate living donor kidney and deceased donor pancreas transplants can be performed with equal success rates. A highly complicated surgery, pancreas-kidney transplantation is one which Maryland's transplant team has performed successfully more than 750 times. "The diabetic patient may present with many complications," Bartlett says. "For instance,

diabetics often have hardening of the arteries or vascular issues. Then there are hazards of the surgery itself—risk of infection or bleeding."

The surgeon who was the first to perform successful pancreas-kidney transplants in both Maryland and California qualifies these challenges by adding, "None of this makes the procedure impossible however—just technically demanding."

The Domino Effect

In this age of technological and scientific breakthroughs, milestones often are complacently placed in the context of inevitability, the expected consequence of having solved earlier medical puzzles that pave the way for even more extraordinary discoveries. Few can remain complacent, however, when considering the significance of one liver from a deceased donor playing a central role in saving the lives of two patients.

That's what happens through a relatively new sequential or "domino" liver transplant in which a liver from a deceased donor is transplanted to cure a life-threatening genetic disease in one patient, and that patient's liver is transplanted to another person suffering liver failure.

Philosophe explains that familial amyloidosis is a disease that gradually causes paralysis throughout the body. "The only curative treatment is a transplant," he says. "This disease is caused by an abnormal protein produced by the liver that gets deposited in tissue over many years." He reports that the damage is done gradually, and that the disease doesn't manifest itself for at least 30 years. In the meantime, the liver is normal in every other way. So an older

For many, however, there is an even better option—a laparoscopic living donor transplant. Having performed more than 1,200 of these procedures since 1995, the team is the unqualified world leader in the surgery that minimizes the medical trauma for donors, and benefits patients by negating the necessity of waiting for a deceased donor kidney.

patient suffering from liver failure can be transplanted with that liver, and is likely to die from old age before the onset of disease three decades later.

The implications for domino transplants are underlined by a severe shortage of deceased donor organs, and long waiting lists of people desperately hoping for what may well be their last chance at life. Many people on those lists live with the realization that they are unlikely candidates for an organ because of their advanced age and frail condition. For them, getting an organ from a patient who has just

been transplanted in an adjacent surgery suite puts singular meaning to the phrase “new lease on life.”

“This procedure is a complicated one,” Philosopher says “Surgeons have to cut the connecting blood vessels from the first patient in a way that provides enough length to attach the liver received from the deceased donor, while making sure the vessels from that patient’s liver are long enough to attach during the second transplant.”

Even liver transplant patients today benefit from the availability of a procedure using living donors. True, one can’t live without a liver, but people do well without a portion of their native liver. Part of the living donor’s organ, generally the right lobe, is transplanted with the result that it—and the part retained by the donor—are regenerated in both donor and recipient

Cutting Edge Research

Bartlett, along with Rolf N. Barth, MD, assistant professor of surgery, and Eduardo Rodriguez, MD, associate professor of surgery, and chief of plastic and reconstructive surgery at the R Adams Cowley Shock Trauma Center, have developed a pre-clinical model for transplanting composite tissue allografts. The plan calls for using tissue of skin, muscle, and bone in facial transplants for the military wounded, trauma victims, and those who have undergone oncologic resections that destroy part of the face.

The idea for the research originated when Bartlett received a request for grant applications from the U.S. Department of Defense, seeking innovative strategies for treating military injuries. The team received the grant and additional subsequent funding for this much needed area of investigation. “There are people who have devastating facial injuries for which there are no adequate solutions,” Barth reports. “Some have had dozens of surgeries without regaining their normal appearance. If we can transplant them with a segment of missing tissue—whether it be for the face, limb or chest wall—we may be able to restore their deformity and their self esteem in one operation.”

The team’s goal is to take its established research model further by developing a clinical protocol for treating patients within 12 to 24 months. Rodriguez, whose specialty is craniofacial reconstruction and microsurgery, would orchestrate recovery of the donor facial segment, transplanting it to the recipient, and reconnecting blood vessels, muscles, bone, nerves and skin.

“Every defect in every patient will be different,” he says. “Each detail must be carefully worked out so that we know, through appropriate scans and clinical examination, just what is needed, and what we’ll have to harvest in order to correct the defect.”



Stephen T. Bartlett, MD

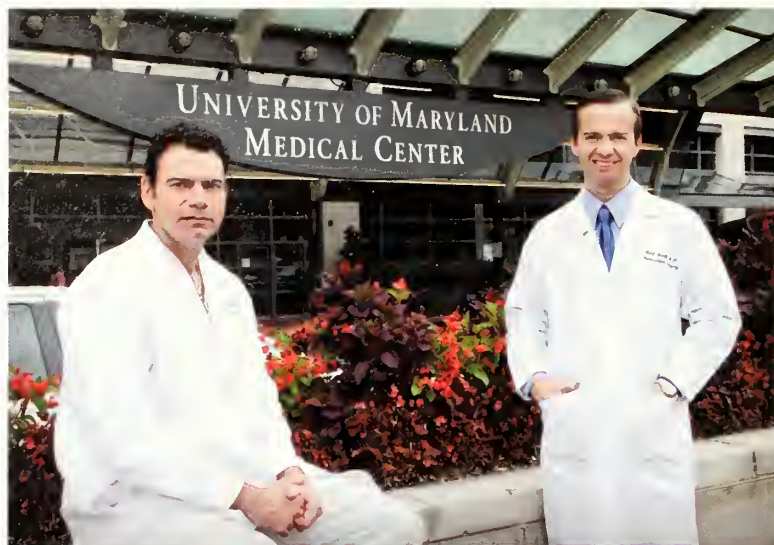
Commenting on the imminence of clinical trials, he says the team is very close but adds, “This isn’t a race, and we don’t care whether or not we are the first in the U.S. to do this. What we care about is doing it right, while being able to predict the outcome.”

Heart and Lung

Statistics alone tell a dramatic story of the medical school’s cardiothoracic program headed by Griffith. During the year 2007, 15 lung transplants were performed—11 of them double lobe transplants. There were 30 heart transplants, one heart-kidney and two heart-liver transplants. While no patient that year required the highly delicate procedure to transplant both heart and lung simultaneously, the team is one of relatively few to successfully perform that operation.

Griffith is regarded internationally for his work, including being the first to save the life of a woman with a recurring heart tumor by removing both of her heart’s upper chambers, then reconstructing them with animal and human donor tissue. The patient’s heart was removed from her chest for five hours before being reimplanted.

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Eduardo Rodriguez, MD, and Rolf N. Barth, MD

The cardiac team is being funded by the National Institutes of Health for the study of pig organs for use in human transplants. In addition, they are conducting a trial to evaluate a perfusion machine to maintain the donor heart in a fresh state that actually allows it to beat in the machine. The heart goes through a difficult time when the brain dies and the pituitary gland and central areas of the brain send signals to the body, resulting in heart damage. Griffith, who is co-director of a national trial to test the device, explains, "We're tricking the heart into thinking it is still in the body while we control all the factors."


The plan is to get the heart out of the post-brain dead environment in order to restore its function. In its own studies, the team has investigated the device in the laboratory on hearts that were rejected for transplants. Results were promising, Griffith says, though not yet conclusive enough for actual use in transplantation.

Griffith recently authored an article in the *New England Journal of Medicine* that describes the team's development of a means of combating organ rejection in lung transplants.

"Early chronic rejection is the biggest obstacle to lung transplantation," he says. "Immuno-suppressant drugs generally are administered orally, but the lung is available to us through breathing. So we developed an aerosol medication and used it in high concentrations, getting it directly to where it was most needed. We were able to do this without influencing the otherwise toxic side effects of the drug."

The Core of Success

What does it take to become a transplant surgeon, particularly on a team recognized for pioneering achievement? Bartlett says, "You can't be daunted by complications. You have to anticipate them and be prepared at all times. A transplant surgeon needs an enormous amount of determination. There are critical decisions to be made—before, during and after the surgery. Those decisions, even though they aren't made in a vacuum but with the help of colleagues, often are the toughest part."

He doesn't mention the almost indefinable passion—the intense dedication that is reflected in the approach these surgeons take in their work—the denial of failure, and the optimism that guides every successful transplant. Oddly enough, there is a certain reserve as well, a disinclination to boast. Maybe that's understandable. There isn't much time for boasting in the day of a transplant team. 



Stephen T. Bartlett, MD, and his transplant team

Photos on pages 13-14 by Richard Lippengholz

Cancer Center Gets Top Billing



Kevin Cullen, MD

The University of Maryland Marlene and Stewart Greenebaum Cancer Center gained considerable national stature recently with formal accreditation as one of only 64 centers designated by the National Cancer Institute (NCI). An additional if less momentous accolade came when *U.S. News and World Report* named the Maryland program as one of the top 50 cancer centers in the country.

The NCI designation, which is assigned to a limited number of cancer centers, is given on the basis of scientific excellence in basic and clinical research, and will further the Greenebaum Cancer Center's work through additional NCI funding up to \$3 million over three years. The *U.S. News and World Report* ranking is based on quality of care.

E. Albert Reece, MD, PhD, MBA, vice president of medical affairs, and dean of the School of Medicine, reports that, in the current funding environment, getting NCI accreditation has become difficult. "The quality of research needed to qualify has changed significantly in the last couple of years," he says. "The process has become a great deal more competitive than it was in the past; so in effect that becomes an additional tribute to the researchers and clinicians who comprise

the cancer center, and whose work is responsible for this distinction."

Pointing to one of those researchers, Kevin Cullen, MD, professor of medicine, pharmacology and experimental therapeutics, and director of the cancer center, cites Angela H. Brodie, PhD, professor of pharmacology and experimental therapeutics, who is recognized worldwide for her discovery of a hormonal breast cancer treatment. "Angela Brodie is clearly an eminent scientist who has distinguished our program," Cullen says. "Her contributions to breast cancer research make her one of the most important people in her field."

Brodie, who has won the American Association for Cancer Researchers international Dorothy Landon prize, and is the only woman to receive the highly coveted Kettering Award, started working with estrogen synthesis and breast cancer early in her career. Recognizing that aromatase is the key enzyme in making estrogen, a known stimulant of breast cancer, she questioned whether inhibiting the enzyme might lead to a treatment for breast cancer. "Others were working on tamoxifen, which only partially blocked the cancer," she reports. "Our purpose was to develop an aromatase inhibitor that would be more effective and have fewer of the problems associated with tamoxifen, including increased stroke risk, and efficacy limited to five years of treatment."

In a word, she was successful. Brodie performed the basic science and developed a compound leading to a new class of drugs called aromatase inhibitors, which have been in use worldwide since the early 1990s, and are replacing tamoxifen. In addition to being prescribed for new patients as an alternate to painful chemotherapy, they are well tolerated, and are successfully used for those who have exhausted their five-year limits of tamoxifen. There is some evidence that aromatase inhibitors are effective in stopping tumor progression as well.

In the meantime, Brodie is collaborating with Vincent Njar, PhD, associate professor of pharmacology, in work with a different enzyme that may be effective in prostate cancer treatment. That project has been licensed, through the university, to a Boston company preparing it for clinical trials.

Cullen reports the sum total of efforts by cancer center scientists suggests important milestones for the center in coming years. He refers to Alan Tomkinson, PhD, associate director for basic science, and Scott

Strome, MD, professor and chair of otorhinolaryngology. "Alan's laboratory is doing cutting edge work on DNA



Angela H. Brodie, PhD, with Edward A. Sausville, MD, PhD, professor of medicine and associate director for clinical research at the Marlene & Stewart Greenebaum Cancer Center

damage and DNA repair to determine how patients respond to either chemotherapy or radiation therapy," Cullen says. "To some degree, cancer treatment revolves around altering the ability of cancer cells to divide. So how the DNA within the cell is damaged and how it responds to damage is a critical part of how people respond to treatment. This work, I believe, may turn out to provide important therapeutic targets in the next couple of years."

He adds that Strome heads the tumor immunology and immunotherapy program. "His group has developed novel oral cancer vaccines which are undergoing clinical trials for the treatment of people with advanced oral cancer—a treatment that, ultimately, may be used for prevention as well," he says.

Another key area of interest at the Greenebaum Cancer Center is its focus on the issue of health disparities. "Nearly



Vincent Njar, PhD



Scott Strome, MD



Perhaps one of the most important activities at the center is its collaboration with the medical school's institute of human virology (IHV) and joint efforts toward vaccine development.

40 percent of our patients are underserved minorities," Cullen says. "That's an unusual percentage for any cancer center in the country, and it means we have a special responsibility to these patients."


He explains that there are serious disparities in treatment and outcomes of treatment in different ethnic groups. Some of this is due to biology and some to access to care. "We're aiming to reverse that trend," he says. "Although studies show that minorities account for few of those likely to take advantage of clinical trials, 70 percent of

the women in our clinical breast cancer trials last year were African Americans. To my mind, that points to two important conclusions—we're working hard to break down the disparities that exist in health care, and we have established trust among the African-American community."

Perhaps one of the most important activities at the center is its collaboration with the medical school's institute of human virology (IHV) and joint efforts toward vaccine development. Robert Gallo, MD, IHV founder and director, one of the most eminent scientists in the world, co-discovered the HIV virus, and was the one to develop the blood test that identifies the virus. He says he looks forward to collaborative efforts between IHV and the Greenebaum Cancer Center, a partnership that will augment the viral oncology program, and develop cancer vaccines, along with IHV's own AIDS vaccine candidate. The corresponding benefit of such work is that, as HIV patients now live longer lives, their risk of cancer and cardiovascular disease has increased significantly. "Currently, IHV and the cancer center are jointly recruiting a vaccinologist whose participation in our programs will have an enormous impact on our combined activities," Gallo says.

Gallo, whose HIV work was preceded by leukemia research at NCI says he has never lost his interest in cancer. "Across the country, there has been a great void in programs in viral oncology," he says. "This is an important component we can build together through a natural collaboration. I have always maintained a warmth and respect for the work done by the NCI; so this is an exciting association for me."

Cullen reports that the Roslyn and Leonard Stoler Pavilion centered on multidisciplinary outpatient care, encompasses the mission of the cancer center in providing care for newly diagnosed patients within a week through team involvement that includes oncologists, surgeons and radiation oncologists. In addition, Cullen points to the development of several training programs and an NCI grant to train clinical investigators in accordance with NCI emphasis on the education and mentoring of young investigators. Looking to the future, he says, "We are moving ahead with programs in viral oncology and tumor immunology. We have developed a division of epidemiology, and are in the process of recruiting a division chief now, who also will direct population studies at the cancer center."

As to goals for the ambitious agenda the Greenebaum Cancer Center will tackle as an NCI designated center, Cullen has no doubts. "We want to be perceived as the best place in Maryland to receive cancer care," he says. "We want to be recognized for what we are—a national leader in both cancer research and treatment." 

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William A. Holbrook
Leonard T. Kurland
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1946

John A. Mitchell

1948

John R. Hankins

1949

Nathan Schnaper

1952

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1955

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1956

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H. Coleman Kramer
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1957

Paul K. Hanashiro
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1958

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1959

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1960

Paul D. Meyer
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1961

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1962

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1963

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1964

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the life and work of
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1979

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1907

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1910

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1916

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1911

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1925

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Number of Donors: 1
Participation: 25%
Total Contributions: \$100.00
Average Gift: \$100.00

Meyer G. Miller

1934

Number of Donors: 1
Participation: 33.33%
Total Contributions: \$100.00
Average Gift: \$100.00

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1935

Number of Donors: 1
Participation: 25%
Total Contributions: \$200.00
Average Gift: \$200.00

Harold W. Rosenberg

1936

Number of Donors: 3
Participation: 50%
Total Contributions: \$1,200.00
Average Gift: \$400.00

Howard T. Knobloch
Morris J. Nicholson
Milton H. Stapen

1937

Number of Donors: 2
Participation: 25%
Total Contributions: \$163,530.00
Average Gift: \$81,765.00

James Frenkil
Lawrence Perlman

1939

Number of Donors: 3
Participation: 50%
Total Contributions: \$1,150.00
Average Gift: \$383.33

Elizabeth B. Cannon-Hall
Oscar Hartman
Arnold F. Lavenstein

1940

Number of Donors: 4
Participation: 40%
Total Contributions: \$750.00
Average Gift: \$187.50

Irving V. Glick
Benjamin H. Infloes Jr.
Albert A. Kurland
Leonard Posner

1941

Number of Donors: 5
Participation: 35.71%
Total Contributions: \$475.00
Average Gift: \$95.00

Aurora F. Alberti Gordon
Michael L. DeVincentis
Franklin E. Leshe
Raymond N. Malouf
Pearl Huffman Scholz

1942

Number of Donors: 4
Participation: 33.33%
Total Contributions: \$2,200.00
Average Gift: \$550.00

Robert A. Barthel Jr.
Etta C. Leahy
Louis H. Shuman
Loy M. Zimmerman

J. Roy Guyther
William M. Harris
Harold Sterling

1943M

Number of Donors: 3
Participation: 13.64%
Total Contributions: \$935.00
Average Gift: \$311.67

Ralph K. Brooks
Irving J. Taylor
Robert E. Wise

1944

Number of Donors: 12
Participation: 46.15%
Total Contributions: \$2,410.00
Average Gift: \$200.83

Warren D. Brill
Herbert B. Copeland
James H. Feaster Jr.
Wilbur H. Foard
Philip H. Lerman
Stuart C. Levine
Sarah Taylor Morrow
William W. Osborne
Michael R. Ramundo
E. Burl Randolph
Harry F. Rolfe
Stanley N. Yaffe

1945

Number of Donors: 14
Participation: 53.85%
Total Contributions: \$10,000.00
Average Gift: \$714.29

Robert F. Byrne
G. R. Callender Jr.
Oscar B. Camp
Mary Dorcas Clark
Eugene H. Conner
John M. Dennis
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William A. Holbrook
A. P. Kelly Jr.
Daniel B. Lemen
Henry F. Maguire
Allen J. O'Neill
Stanley R. Steinbach
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1946

Number of Donors: 20
Participation: 51.28%
Total Contributions: \$6,910.00
Average Gift: \$345.50

William J. Bannen
Robert E. Bauer
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1947

Number of Donors: 20
Participation: 51.28%
Total Contributions: \$3,095.00
Average Gift: \$154.75

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B. Stanley Cohen
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Eugene P. Salvati
Joseph Shear
William H. Stenstrom
Jose G. Valderas
Sydney J. Venable
John P. White

1948

Number of Donors: 15
Participation: 38.46%
Total Contributions: \$6,820.00
Average Gift: \$454.67

A. Andrew Alecce
James Bisanar
Elisabeth McCauley Brunback
Leonard H. Golombek
John R. Hanks
R. H. Kaufman
Charles H. Lithgow
Benson C. Schwartz
John R. Shell
Benjamin K. Silverman
Allen D. Tate, Jr.
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James T. Wellborn
Clark Whitehorn
John D. Wilson

1949

Number of Donors: 11
Participation: 35.48%
Total Contributions: \$4,571.43
Average Gift: \$415.58

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Harry W. Gray
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Burton V. Lock
Howard F. Raskin
Robert R. Rosen
Nathan Schnaper
Meredith P. Smith
John A. Spittell Jr.
Elwin E. Stanfield
Edward W. Stevenson

1950

Number of Donors: 23
Participation: 60.53%
Total Contributions: \$6,373.48
Average Gift: \$277.11

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Jay L. Bisgyer
H. H. Bleecker Jr.
L. Guy Chelton
Jerome J. Collier
Miriam S. Daly
Leonard L. Deitz
Stanley W. Henson Jr.
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Milton R. Righetti
Morton Smith
Henry H. Startzman Jr.
Elizabeth Stockly
Robert T. Thibadeau
Bate C. Toms
Fowler F. White
Clifford E. Wilson
Harriet H. Wooten
William H. Yeager

1951

Number of Donors: 19
Participation: 46.34%
Total Contributions: \$11,263.40
Average Gift: \$592.81

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Raymond R. Curanzy
Winston C. Dudley
Nancy B. Geiler
Doris M. Harris
David M. Kipnis
Harry L. Knipp
Jack Leibman
K. R. McGrady
Arthur Z. Mutter
Henry D. Perry
Eugene B. Rex
Georgia Reynolds
Marvin J. Rombro
Armando Saavedra
John T. Scully
S. Norman Sherry
Edward M. Sipple
Homer L. Twigg Jr.

1952

Number of Donors: 32
Participation: 64.00%
Total Contributions: \$14,038.00
Average Gift: \$438.69

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Charles G. Adkins
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Jack O. Carson
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Lawrence D. Egbert
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William R. Greco
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Classes with the Highest Gift Totals

1937	\$163,530.00
1966	\$93,288.63
1953	\$71,600.00
1957	\$42,745.00
1975	\$38,395.00

1938

Number of Donors: 3
Participation: 33.33%
Total Contributions: \$1,600.00
Average Gift: \$533.33

Joseph M. George Jr.
W. Lehman Guyton Jr.
H. Leonard Warren

1943D

Number of Donors: 6
Participation: 28.57%
Total Contributions: \$1,155.00
Average Gift: \$192.50

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Augustus H. Frye Jr.
Albert Grant

Irvin Hyatt
Frank M. Kline
Joseph A. Knell Jr.
Irving Kramer
Morton M. Krieger
Charles H. Lightbody
William A. Mathews
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Jonas R. Rapoport
Malcolm L. Robbins
Bella F. Schimmel
Richard A. Sandler
Alvin A. Stambler
David R. Taxdal
Bryan P. Warren Jr.
Howard N. Weeks
Donald A. Wolfel

1953

Number of Donors: 25
Participation: 45.45%
Total Contributions: \$71,600.00
Average Gift: \$2,864.00

Robert Berkow
Samuel Blumenfeld
Joseph R. Bove
Thomas J. Burkart
Walter H. Byerly
Charles F. Carroll Jr.
Harry L. Eye
Sylvan Frieman
John W. Heisse
Thomas F. Herbert
Charles F. Hess

Classes with the Highest Average Gift

1937	\$81,765.00
1966	\$2,864.00
1953	\$2,028.01
1957	\$1,473.97
1975	\$913.65

William L. Holder
Werner E. Kaese
Capt. Robert Kingsbury
William S. Kiser
Benjamin Lee
Herbert Leighton
Rafael Longo
John W. Metcalf
James E. Might
George H. Miller
George C. Peck
Robert T. Singleton
Karl H. Weaver
Joel S. Webster

1954

Number of Donors: 31
Participation: 51.67%
Total Contributions: \$9,065.00
Average Gift: \$292.42

Arthur Baitch
George Bauerschub
Anthony A. Bernardo
Edwin H. T. Besson
Herbert L. Blumenfeld
Charles T. Fitch
Norman Forrest
Charles J. Hammer Jr.
John F. Hartman
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Gerald F. Nangle
Joseph J. Noya
Jean M. C. O'Connor
David H. Patten
Morris Rainess

Bernard R. Shochet
Marshall A. Simpson
Jean B. Smith
Thorliet L. Stangelye
James H. Teeter
Ira N. Tublin
George Wall
Arthur V. Whittaker
Robert E. Yim

1955

Number of Donors: 28
Participation: 47.46%
Total Contributions: \$13,111.71
Average Gift: \$468.28

Roderick E. Charles
James M. Close
Roger W. Cole
John J. Darrell
Donald H. Dembo
Henry A. Diederichs
William Dvorine
John A. Engers
Vernon M. Gelhaus
Gary S. Goshorn
Alvin W. Hecker
Henry Booth Higman
Walter N. Hummler
Paul C. Hudson
Walter E. James
Murray M. Kappelman
William P. Keefe
Morton D. Kramer
Violet S. Kron
William F. Krone Jr.
Richard F. Leighton
Leonard J. Morse

Paul G. Mueller
Frank R. Nataro
George N. Polts
Joan Raskin
Albert M. Sax
Phillip G. Stagers

1956

Number of Donors: 54
Participation: 51.52%
Total Contributions: \$19,788.00
Average Gift: \$582.00

Robert T. Adkins
Jerald H. Bennion
Robert J. Byrne
Theodore R. Carski
Thomas H. Collawn
Edward D. Frohlich
Robert N. Headley
Webb S. Hersperger
Virgil R. Hooper
Ralph T. Hummel
Albert V. Kanner
C. Herschel King
H. Coleman Kramer
Scheldon Kress
Joseph G. Lanzi
Mathew H. M. Lee
Gerald N. Maggid
Herbert M. Marton
Joseph S. McLaughlin
John F. Nowell
Clark Lamont Osteen
Marvin S. Platt
Richard L. Plumb
Irvin P. Pollack
G. Edward Reahl Jr.



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Cell: 410.375.4096
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Towson, MD 21286

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Mortgage

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Roy O. Shaub
Virginia T. Sherr
W. A. Sinton, Jr.
Paul V. Slater
George T. Smith
George A. Sowell
John Z. Williams
Harry D. Wilson Jr.

1957

Number of Donors: 29
Participation: 43.28%
Total Contributions: \$42,745.00
Average Gift: \$1,473.97

Charles Allen
Marvin S. Arons
Virginia Y. Blackledge
James K. Bouzoukis
Mary C. Burchell
Anthony J. Calciano
Joseph O. Dean Jr.
Mary Stang Furth
Sebastian J. Gallo
Nicholas Garcia
Allen S. Gerber
Paul K. Hanashiro
Harold J. Hettleman
W. F. Holdefer
William F. Kennedy Jr.
David P. Largey
Joseph C. Laughlin
George A. Lentz
Frank J. Macek
Paul A. Mullan
Herbert H. Nasdor
Frederick W. Plugge IV
Louis L. Randall
George W. Rever
Morton W. Shapiro
Landon Clarke Strout
Michael S. Trupp
Ray A. Wilson
Leonard M. Zullo

1958

Number of Donors: 35
Participation: 57.38%
Total Contributions: \$26,974.39
Average Gift: \$770.70

John T. Alexander
James K. Aton
William G. Bartlett
George R. Baumgardner
Ellott M. Berg
Maurice J. Berman
Stuart H. Brager
Gaylord Lee Clark
Robert E. Cranley Jr.
Bruce N. Curtis
Gilbert B. Cushner
Richard J. Erickson
Stanley N. Farb
Harvey L. Friedlander
Barrett Goldstein
Frank P. Greene
Meredith S. Hale
John S. Harshay
Albert F. Heck
William J. Hicken
Robert H. Johnson Jr.

Richard H. Keller
Frank K. Kriz Jr.
Howard S. Levin
Arthur Litofsky
William J. Marshall
Joseph A. Mead Jr.
John G. Orth
Antonio Perez Santiago
Maurice M. Reeder
Lewis H. Richmond
Charles Silberstein
Jerome Tilles
James H. Tyler
William T. Ward

1959

Number of Donors: 30
Participation: 54.55%
Total Contributions: \$11,825.00
Average Gift: \$394.17

Gerson Asrael
Fred D. Brown
William N. Cohen
John W. Coursey
Joseph L. Darr
Robert J. Dawson
W. F. Falls Jr.
Charles B. Fletcher
Franklin A. Hanauer
Roger B. Ingham
James P. Jarboe
August D. King Jr.
Marvin M. Kirsh
Martin S. Kleinman
Richard C. Lang
Donald R. Lewis
Jose Oscar Morales
Morton M. Mower
J. Rollin Otto
Nicholas A. Pace
Arthur L. Poffenbarger
Mario J. Reda
William E. Rhea
C. Edmund Rybczynski
Arthur A. Serpuck
Stanley N. Snyder
Beverly J. Strump
Robert J. Thomas
George S. Trotter
Hans R. Wilhelmssen

1960

Number of Donors: 37
Participation: 55.38%
Total Contributions: \$16,800.00
Average Gift: \$454.05

Aristides C. Alevizatos
Lawrence F. Awalt
Leonard P. Berger
Arnold Brenner
Louis M. Damiano
Donald W. Darlow
Michael J. Fellner
Julio E. Figueroa
Alvin Glass
I. William Grossman
Wilson A. Heelner
C. Earl Hill
Ronald E. Keyser
Philip M. La Mastra

Damon F. Mills
John C. Morton
Allen R. Myers
Fortune Odendhal IV
Selvin Passen
Jerome M. Reed
Neil A. Robinson
Clinton L. Rogers
Jerome Ross
Robert P. Sarni
Elijah Saunders
Bernice Sigman
Emanuel H. Silverstein
George I. Smith Jr.
Morton E. Smith
W. E. Standiford
Martha E. Stauffer
Nathan Stofberg
Merrill T. Syphus
Michael S. Tenner
James A. Yates
Theodore Zanker

1961

Number of Donors: 29
Participation: 39.13%
Total Contributions: \$11,465.00
Average Gift: \$395.34

George E. Bandy
Carl F. Berner
Oscar H. L. Bing
Anthony R. Boccuti
Thomas G. Breslin
John N. Browell
Milton H. Buschman
Ronald L. Cam
Robert A. Fink
W. R. Fleming Jr.
Ronald L. Gutberlet
Samuel H. Henck
Gerald A. Holkin
Richard G. Holz
Carlos E. Itarraguerra
Gerald C. Kempthorne
John P. Light
David E. Litrenta
Roger Lee Mehl
Robert J. Myerburg
Michael B. A. Oldstone
Paul A. Reeder Jr.
David L. Rosen
Richard M. Sarles
Richard F. Schillaci
Thomas M. Sonn
Larry G. Tilley
George E. Urban Jr.
Arthur Wolpert

1962

Number of Donors: 32
Participation: 41.03%
Total Contributions: \$13,293.28
Average Gift: \$415.42

J. Fred Baker
C. Gottfried Baumann
Merrill I. Berman
Robert B. Bokit
Louis C. Breschi
Bruce D. Broughton
Jon B. Closson
Hammond J. Dugan III
Frederick S. Felber
William T. Johnstone

Bernard S. Karpers
Stephen H. Kaufman
S. A. Klatsky
Paul A. Kohlhepp
Melvin D. Kopilnick
Alan B. Lachman
Johnson Ling
Lois H. Love
Kenneth P. Malan
Robert A. McCormick
Thomas Moshang Jr.
David G. Musgerd
Ted C. Patterson
Donald David Pet
Phyllis K. Pullen
Gregory J. Sophocleus
W. H. Sotheron Jr.
R. R. Stephenson
Arthur W. Traum
Kenneth W. Tuttle
Ralph E. Updike
William H. Wood Jr.

1963

Number of Donors: 34
Participation: 49.28%
Total Contributions: \$31,064.00
Average Gift: \$913.65

Robert M. Beazley
Lee David Brauer
Nijole B. Carozza
Stephen P. Cohen
Peter C. Fuchs
Leland M. Garrison
B. Robert Giangrandi
Donald H. Gilden
Richard L. Goldman
Joel S. Gordon
Michael G. Hayes
Alice B. Heisler
D. Robert Hess Jr.
Thomas V. Inglesby
Philip A. Insley Jr.
Arnold J. Jules
Paul F. Kaminski
William A. King
Merrill M. Knopf
Michael L. Levin
Kenneth G. Magee
Barbara A. McLean
Stanley L. Minken
Charles R. Mock
Janet E. Mules
Robert D. Piat
Benjamin B. Rubinstein
Mayer Schwartz
Mitchell C. Sollod

Chris P. Tountas
Frank J. Travisano
Edward C. Werner
Joseph R. Wilson
Aron Wolf

1964

Number of Donors: 32
Participation: 45.71%
Total Contributions: \$8,420.00
Average Gift: \$263.13

Sigmund A. Amitin
Michael N. Ashman
L. Bradley Baker
Larry Becker
Barry M. Cohen
Donald A. Deinlein
Robert L. Gingell
Marvin N. Goldstein
Euclid H. Jones
Rosahnd P. Kaplan
Matthew L. Kaufman
Mark E. Krugman
Donald T. Lewers
Ruth E. Luddy
Edgar V. McGinley
M. S. Michaelis
Joel S. Mindel
Samuel Muher
David M. Nichols Jr.
Thomas J. Porter
Jose D. Quinones
Jerome P. Reichmister
Barry N. Rosenbaum
William E. Schwartz
Perry S. Shelton
Richard G. Shugarman
Lawrence F. Solomon
Harold C. Standiford
Robert E. Stoner
Jo Ann Sutherland
Jonathan D. Tuerk
John K. Weagly

1965

Number of Donors: 34
Participation: 41.98%
Total Contributions: \$12,189.24
Average Gift: \$358.51

Verner Albertsen
Brian J. Baldwin
Jeffrey L. Brown
Larry C. Chong
Arthur R. Dick
John C. Dumlér Jr.
Allen A. Frey

Classes with the Highest Percentage of Donors

1952	64.00%
1950	60.53%
1958	57.38%
1960	55.38%
1959	54.55%

Donors 1961

Ronald Goldner
William M. Gould
R. L. Handwerker
David R. Harris
Charles S. Harrison
Frederick S. Herold
John C. Hisley
Allen H. Judman
Allan S. Land
William E. Legat
Susan H. Mather
John W. Maun
Carlos R. Mendez Bryan
Louis O. Olsen
George Peters
Jeffrey E. Potley
Donald Cornelius Roane
Alfred B. Rosenstern
S. L. Sattenspiel
G. C. Sjölund Jr.
Larry A. Snyder
John M. Steffy
Fred N. Sugar
Harry Tabor
Elliot S. Tokar
Philip Joseph Whelan
Ann Robinson Wilke

1966

Number of Donors: 46
Participation: 45.10%
Total Contributions: \$93,288.63
Average Gift: \$2,028.01

Leslie Abrahamowitz
Diane L. K. Acker
James E. Arnold
Jay Martin Barrash
Arnold S. Blaustein
Walter M. Braunohler
Mark J. Brown
Michael P. Buchness
Philip B. Dvoskin
William D. Ertag
Stuart L. Fine
Richard L. Flax
Dwight N. Fortier
J. M. France Jr.
George E. Gallahorn
Richard S. Glass
Stephen F. Gordon
Michael J. Haney
William O. Harrison
Thomas M. Hill
Elizabeth C. Hosick
Ronald H. Koenig
Joel A. Krackow
Stephen Machiz
Joseph B. Marcus
William J. Marek
William T. Mason
Jane C. McCaffrey
Allan J. Monfried
Carl J. Ortus
Carolyn J. Pass
Gary D. Plotnick
C. Downey Price
James A. Quinlan
Dudley Allen Raine Jr.
Ernesto Rivera
Alfred A. Serritella
Richard D. Shuger
Irvin M. Sopher
James W. Spence
Jack I. Stern

Jeffrey S. Stier
Berestord M. Swan
Henry L. Trattler
Robert R. Young
Stuart H. Yuspa

1967

Number of Donors: 47
Participation: 48.96%
Total Contributions: \$15,235.07
Average Gift: \$324.15

Elizabeth A. Abel
John A. Bigbee
William F. Bloom
William L. Boddie
Susan Bollinger
Colvin C. Carter
Gerard D. Dobrzycki
Francis D. Drake
Perry A. Eagle
Harris J. Feldman
Larry B. Feldman
Henry Feuer
Robert O. France
John Wm. Gareis
Joseph S. Gimbel
James L. Hamby
Robert W. Hertzog
John S. Ignatowski
Michael A. Kaliner
Eugene F. Kester
James G. Konrad
George A. Lapes
Gary M. Lattin
Stuart H. Lessans
Richard H. Mack
Sheldon L. Markowitz
Louis W. Miller
Alan H. Mitnick
Boyd D. Myers
Fred R. Nelson
A. Z. Paritzky
Jean Posner
Allan S. Pristoop
Ralph D. Raymond
John F. Rogers
John R. Rowell
John C. Sewell
Michael L. Sherman
David M. Snyder
Robert A. Sotterman
Joseph I. Stapen
John R. Stephens
Kenneth B. Stern
Michael D. Sussinan
Larry J. Warner
Allan M. Wexler
Gary N. Wilner

1968

Number of Donors: 42
Participation: 38.53%
Total Contributions: \$20,460.00
Average Gift: \$487.14

Richard A. Baum
Sheldon B. Bearman
Michael W. Benenson
Barry A. Blum
Morton B. Blumberg
Robert Brull
Joseph F. Callaghan Jr.
Elliot S. Cohen
Allen C. Eglott

Frank A. Franklin
John G. Frizzera
John D. Gelin
Ronald S. Glick
Jack R. Groover
Barry S. Handwerker
Stephen L. Hooper
George F. Hyman
James G. Kane
George M. Kneely Jr.
Frank A. Kulik
Ronald M. Legum
Gordon L. Levin
Abraham A. Litt
Philip Littman
Stanford H. Malinow
H. E. Mendelsohn
Anthony L. Merlis
Bruce L. Miller
Joel Wm. Renbaum
David J. Riley
Stephen D. Rosenbaum
Charles S. Samorodin
Barry J. Schlossberg
Burton G. Schonfeld
Howard Semins
Stuart H. Spielman
Wiltred B. Strauter
Jon M. Valigorsky
Stanley R. Weimer
Stuart Winakur
Edward J. Young

1969

Number of Donors: 51
Participation: 44.74%
Total Contributions: \$13,870.00
Average Gift: \$271.96

Mark M. Applefeld
Edward E. Aston IV
J. O. Ballard III
Emile A. Bendit
Barry B. Bercu
Sanders H. Berk
John C. Blasko
Roberta M. Braun
Donald Wm. Bryan
Howard S. Caplan
Edward A. Carter
Paul J. Connors
Leonard D. Cutler
Howard A. Davidov
Ronald L. Elson
Anthony F. Faustine
Richard E. Fisher
Donna L. Gibbas
Graham Gilmer III
Samuel D. Goldberg
Roy R. Goodman
Marvin J. Gordon
Arnold Herskovic
Thomas M. Herskovic
Constance L. Holbrook
Anne S. Jacques
Mark D. Kappelman
Reynold M. Karr
Ronald A. Katz
Felix L. Kaufman
Daniel J. Ladd
C. W. McCluggage
John R. McCormick
Arthur V. Millholland
Stephen M. Morgan
Wayne H. Parris

Robert W. Philip
Harry Rabinovich
David R. Richmond
Allan I. Rubin
Brian S. Saunders
Ronald L. Schneider
W. Winslow Schrank
John W. Shaffer
David M. Shubin
William L. Smulyan
David H. Snyder
William E. Sohr
David A. Solomon
Kristin Struber
Kenneth C. Ullman

1970

Number of Donors: 43
Participation: 38.05%
Total Contributions: \$18,207.40
Average Gift: \$423.43

Arthur O. Anderson
David H. Berkelev
David H. Berman
Martin Braun
John P. Caulfield
Leo A. Courtney III
Dwight E. Cramer
Joseph H. Cunningham Jr.
Donald D. Douglas
A. Stephen Dubansky
Joseph N. Friend
Michael A. Grasso
Stephen B. Greenberg
W. D. Hakkarinen
Louis S. Halikman
Meyer Reuben Heyman
Lin H. Ho
Kenneth M. Hoffman
Whitney Houghton
Dennis J. Hurwitz
Michael Kilham
James A. Kopper
Philip A. Mackowiak
C. B. Marek Jr.
Thomas P. Miles
Lawrence Mills Jr.
James S. Murphy
David A. Perry
Leslie P. Plotnick
John H. Poehlman
R. B. Pollard Jr.
Gerald M. Rehert
Walker L. Robinson
Robert F. Sarlin
Louis A. Shpritz
Gregory T. Sobczak
Ronald J. Stanfield
Stanley S. Tseng
William A. Warren
Arthur M. Warwick
Charles I. Wemer
Robert I. White
S. M. Zaborowski

1971

Number of Donors: 31
Participation: 27.19%
Total Contributions: \$8,385.00
Average Gift: \$270.48

Peter W. Beall
George H. Brouillet

Ronald Paul Frank
Michael P. Gump
Sachiko T. Guchman
Dwight L. Gochen
Larry F. Gorman
Steven A. Felt
Burton J. Glass
Robert B. Greinert
Garry A. Grissart
Peter M. Hartmann
C. F. Hobelmann Jr.
Gwynne I. Horwitz
Ierald Kiv
Richard C. Keown
John B. Kramer
William R. Lanthorn
Jack S. Lissauer
R. M. Menfzer
Robert I. Neborsky
R. Henry Richards
Donald M. Rocklin
Paul T. Rogers
Henry G. Sacks
JoAnn C. C. Santos
Gerald N. Schaffer
Robert E. Sharrock
Panayiotis L. Sitaras
Marshall K. Steele III
C. T. Woolsey Jr.

1972

Number of Donors: 37
Participation: 28.68%
Total Contributions: \$14,884.62
Average Gift: \$402.29

Barbara Rosenthal Adler
William G. Armiger
Robert J. Bauer
John W. Blotzer
Cary D. Brown
Elizabeth R. Brown
Howard Caplan
Marc L. Chaiken
Theodore H. Crevier
Walter H. Dorman
C. Thomas Folkemer
Darryl J. Garhinkel
Michael E. Golembieski
Sumner H. Goodman
Roger L. Gordon
Joseph K. Jamaris
Neil B. Kappelman
Richard B. Kline
Mark J. LeVine
Deborah Brandchart Matro
George A. Metzger
Joseph D. Moser
John A. Niziol
John M. O'Day
Michael J. Ossi
Martin S. Rosenthal
Richard H. Sherman
Gerard V. Smith
H. Hershey Solod
Thomas J. Toner Jr.
Peter D. Vash
Jerald P. Waldman
Elliot M. Wallack
Howard J. Weinstein
Brian J. Winter
Celeste L. Woodward
Lyn J. Yaffe

Honor Roll 2008

1973

Number of Donors: 42
Participation: 34.45%
Total Contributions: \$17,537.75
Average Gift: \$417.66

Jeffrey C. Blum
Thomas Calame
Charles R. Clark
W. Edwin Conner
Gregory A. Denari
Michael J. Dodd
Steven H. Dolinsky
John W. Foreman
William R. Gaver
Nelson H. Goldberg
David J. Grethinger
Steven J. Gross
Daniel C. Hardesty
Louis E. Harman III
David E. Herman
Michael F. Jaworski
Joseph D. Jenci
Murray A. Kalish
Erich Kim
James E. Kirby
Walter B. Koppel
Merric D. Landy
Jeffrey S. Lobel
Denis Wm. MacDonald
Samuel V. Mace
Elizabeth Feeney Masten
Christopher S. Michel
Clarence D. Miller
Mark P. Miller
Alfred J. Saah
Howard I. Satontz
Peter L. Schildhouse
Ronald A. Seif
Gregory B. Shankman
Gary M. Shapiro
Robert B. Stiller
Ira M. Stone
Ronald J. Taylor
Harold Tucker
Roberta S. Tucker
Charles B. Watson
Alan L. Whitney

1974

Number of Donors: 44
Participation: 35.20%
Total Contributions: \$12,122.00
Average Gift: \$275.50

Charles P. Adamo
Jeffrey P. Block
Richard A. Block
James G. Chaconas
R. P. Christianson
Thomas C. Doerner
Stephen B. Flershtman
Daniel K. Foss
Alan E. Guber
Edward S. Gratz
Robert M. Guthrie
Charles A. Haile
James F. Hatch
Jay R. Jackson
Charles M. Jaffe
Ronald Kaplan
Laslo E. Kolta

Carole S. Kornreich
Howard G. Lanham
Merral B. Lewis
Stephen R. Matz
Terrance P. McHugh
James Jay McMullen
Joel B. Miller
Sheldon D. Milner
Susan R. Panny
Jeffrey Pargament
Edward L. Perl
Jay A. Phillips
Luis A. Queral
Clayton L. Raab
James M. Raver
Sue V. Raver
June K. Robinson
Susan Kosnik Ross
Edward N. Sherman
Harry S. Stevens
Steven A. Vogel
Emerson C. Walden Jr.
William R. Weisburger
Stephen N. Xenakis
Robert S. Yasner
Allen C. Zechow
David L. Zisow

1975

Number of Donors: 58
Participation: 44.62%
Total Contributions: \$38,395.00
Average Gift: \$661.98

Charles E. Andrews
Anonymous

James R. Evans
Louis Fox
Robert B. Garrett
Gary F. Harne
Albin W. Harris
Darvin L. Hege
Charles F. Hoesch
Dorothy Shih Yi Hsiao
Kenneth V. Ierson
Brian S. Kahntroff
M. C. Kowalewski
Thomas F. Krajewski
Mary Lou Kramer
Thom E. Lobe
Edmund J. MacLaughlin
Charles E. Manner
W. Peter Marwede
Charles R. Medani
Jeffrey L. Metzner
Edward M. Miller
Thomas L. Mottatt
Parry A. Moore
Edward L. Morris
Frank H. Morris
Nicolette Orlando Morris
Kathryn A. Peroutka
L. Edward Perraut Jr.
Stephen H. Pollock
Jeffrey L. Quartner
Sandra D. L. Quartner
Robert E. Roby
John W. Rose
Andrew B. Rudo
Howard William Schnaper
James H. Somerville
Ronald J. Spector
Michael B. Stewart
George A. Taler
Richard L. Taylor

David B. Binder
Damian E. Birchess
John W. Bowie
Janet F. Brown
William G. Brown
Vincent W. DeLaGarza
Suzanne Ray Dixon
Edward F. Driscoll
Christopher Feitfark
Ellen B. Feitfark
Isadore A. Feldman
William G. Flowers
D. Stewart Ginsberg
Allan S. Gold
Ira E. Hantman
Gary M. Jacobs
Rodney A. Johnson
Patricia D. Kellogg
Jacqueline Kelly
Harry Clarke Knipp
Barry K. Levin
Geoffrey B. Liss
Miriam Yudkoff Lloyd
James E. Mark
Robert D. Mathieson
Eva H. B. McCullars
Arnold B. Merin
W. Bruce Obenshain
Murray D. Pearlman
Gary P. Posner
Gerald M. Rosen
M. H. Rubenstein
William F. Ruppel
Gary L. Simon
Lee S. Simon
James W. Srou
Joseph R. Tiralla
Deborah F. Weber
Sherry L. Werner
Joan E. Whitehouse Gible
Susan M. Willard
Pamela A. Wilson
Benjamin K. Yorkoff
Robert G. Zeller

1977

Number of Donors: 46
Participation: 29.68%
Total Contributions: \$16,150.00
Average Gift: \$351.09

Katherine Ackerman
Michael F. Adinolfi
Stuart B. Bell
Ronald S. Benenson
Marc S. Bresler
Elwood A. Cobey
William Joseph Dichtel
Willarda V. Edwards
Rona B. Eisen
Frederic T. Farra
Richard J. Feldman
Robert T. Fisher
Donna L. Frankel
Samuel D. Friedel
Linda L. George
Alan S. Gertler
Doris S. Gertler
Anne C. Goldberg
Neil D. Goldberg
Charles R. Graham
Christopher F. James
Ronald L. Kahn
Richard Kelmenson

Martin Koller
Eva Magiros
William G. Martin
Paul A. McClelland
Ellis Mez
John P. Miller III
Edward B. Mishner
Coleman A. Mosley
A. Antonio Plucis Turkopulo
Steven H. Resnick
Michael S. Sellman
Richard B. Silver
Bruce H. Sindler
Steven G. Steinberg
Clyde A. Strang
David Strobel
Michelle D. Uhl
Jonathan R. Walburn
Bennett E. Werner
Katherine C. White
Richard J. Zangara
Stephen M. Zemel
Stuart A. Zipper

1978

Number of Donors: 44
Participation: 26.35%
Total Contributions: \$16,251.00
Average Gift: \$369.34

Philip A. Ades
Robert E. Applebaum
Charles Wm. Bennett
Edward N. Bodurian
Howard Boltansky
David E. Cohen
Ira J. Kalis Cohen
Louis J. Domenici
Ian S. Elliot
John L. Fiore
Gregory H. Fisher
Andrew Paul Fridberg
Marianne N. Fridberg
Morris Funk
Michael D. Gotts
Richard H. Hallock
M. J. Ichniowski
Sandra S. Isbister
Barry Josephs
David E. Kelley
Elizabeth M. Kingsley
S. D. Lindenbaum
Mark D. Lisberger
Gregory D. McCormack
Harvey S. Mishner
Jeremy S. Musher
David G. Oelberg
Gary C. Prada
Susan H. Prouty
James F. Rooney
Elizabeth M. Ross
Ronald J. Ross
Lawrence D. Sandler
Michael H. Sandler
Simon V. Scalia
S. Shawver Matthews
Robert S. Shayne
Alex Sokil
Ellen L. Taylor
Lorne G. Tompkins
Robin M. Ulanow
Stephen A. Valenti
Neil E. Warren
Bruce E. Weneck

Classes with the Most Davidge Alliance Members

1975	29
1970	19
1973	17
1956	16
1960	16
1961	16
1966	16

James L. Atkins
Linda S. Bartram
Robert J. Beach
John F. Biedlingmaier
Howard H. Bond
Jonathan D. Book
Timothy J. Byrnes
James Joa Campbell
John H. Carrill
Noel M. Chiantella
Seth B. Cutler
Karl W. Diehn
L. Thomas Divilio

Lloyd M. Van Lunen Jr.
Robert A. Vegors
Gary J. Waxman
Michael E. Wemblatt

1976

Number of Donors: 46
Participation: 31.08%
Total Contributions: \$13,790.00
Average Gift: \$299.78

Timothy E. Banum
Steven M. Berlin

1979

Number of Donors: 45
 Participation: 27.61%
 Total Contributions: \$16,349.44
 Average Gift: \$363.32

Arthur E. Bakal
 Basil Philip Barr
 Joanne L. Blum
 Karen C. Carroll
 Kevin M. Cooke
 Burt I. Feldman
 Mitchell S. Finkel
 Christopher S. Forman
 Gary R. Friedman
 Scott D. Friedman
 Jeffrey D. Gaber
 Alan R. Gaby
 Leon W. Gible
 Peter E. Godfrey
 Charles I. Highstein
 Jan M. Hoffman
 Michael E. Hull
 Donna G. Hurlock
 Stephan R. Izi
 Albert L. Jochen
 James W. Karesh
 Frederic J. Kaye
 Alan L. Kimmel
 Max D. Koenigsberg
 Glenn M. Kotcen
 Bernard F. Kozlovsky
 Owen Lee
 E. S. Machado
 G. S. Malouf Jr.
 Bruce C. Marshall
 Bruce R. McCurdy
 Wayne A. McWilliams
 Kathleen H. Miller
 Sunday June Pickens
 David S. Prince
 Peter E. Rork
 Bruce Rosenberg
 Michael J. Smith
 David B. Tapper
 Elizabeth L. Tso
 Harlan E. Weisman
 Perri Laverson Wittgrove
 A. F. Woodward Jr.
 H. Russell Wright
 Kristen A. Zarlos

1980

Number of Donors: 68
 Participation: 38.64%
 Total Contributions: \$28,020.00
 Average Gift: \$412.06

Robert C. Ammlung
 Louis M. Bell Jr.
 Donald E. Brown Jr.
 Douglas R. Brunner
 Terence D. Campbell
 Wayne E. Cascio
 Robert P. Cervenka
 Joseph P. Crawford
 Catherine Crute
 Kirk D. Cylus
 Craig A. Dickinson
 Margaret D. Eby
 Judith Falloon
 James F. Fiastro
 Milford Mace Foxwell
 David B. Franks
 Cathy Ann Friedman
 Vincent W. Gatto

Alan I. Gelman
 Marcia P. Goldmark
 Peter J. Golucke
 Lee J. Helman
 Jan L. Houghton
 Charita C. Hoyle
 Kenneth A. Jurist
 Marian F. Kellner
 Michael R. Kessler
 Kenneth C. Kunze
 Susan L. Laessig
 Anne D. Lane
 Charles E. Lee
 Mark D. Leeson
 John R. Livengood
 Robert Y. Maggin
 Teri A. Manolio
 Richard A. Marasa
 John N. Margolis
 David J. Markowitz
 David Bruce Matchar
 Margaret E. McCahill
 Timothy P. McLaughlin
 Steven M. Miller
 Judah A. Minkove
 Thomas P. Moran
 William J. Oktavec
 Eric M. Orenstein
 Keith D. Osborn
 David I. Otto
 Craig H. Paul
 Russell K. Portenoy
 Guy H. Posey
 Michael F. Pratt
 Kirby D. Rekedal
 James P. Richardson
 Roger J. Robertson
 W. Michael Rogers
 R. L. Rudolph II
 Alan J. Sacks
 Robert L. Schiff
 Alvin R. Sills
 Kenneth H. C. Silver
 Roy T. Smoot Jr.
 Victoria W. Smoot
 Sally E. Sondergaard
 H. H. Startzman III
 Henry W. Sundermier
 Phuong D. Trinh
 Paul E. Whittaker

1981

Number of Donors: 39
 Participation: 23.35%
 Total Contributions: \$12,269.10
 Average Gift: \$314.59

Peter M. Barker
 Bruce R. Bolling
 Barbara J. Carroll
 Candace I. Chandler
 Steve Pi Hsiung Chow
 Kevin J. Doyle
 Daniel P. Ferrick
 Frederick G. Flaccavento
 Neil M. Friedlander
 Samuel C. Gold
 Howard T. Jacobs
 Steven R. Jaskulsky
 Brian H. Kahn
 Mark C. Lakshmanan
 Andrew M. Malinow
 Gordon L. Mandell
 Stephan C. B. Mann
 Samuel O. Matz
 Scott T. Maurer

Classes with the Highest Number of Donors

1980	68
1975	58
1969	51
1967	47
1966	46
1976	46
1977	46

David C. Miller
 Andrew G. Misulna
 Paul E. Mullen II
 Kathryn M. Neuman Rudo
 Marc Okun
 Philip F. Panzarella
 James L. Pertsch
 Alan R. Pollack
 Deborah R. Pollack
 James S. Powell
 Donna L. Rinis
 Howard N. Robinson
 Howard L. Siegel
 Samuel Smith
 Dina R. Sokal
 Carl Sperling
 Paul A. Valle Jr.
 Elizabeth Elster Wack
 Brian W. Wamsley
 Samuel A. Yousem

1982

Number of Donors: 38
 Participation: 21.84%
 Total Contributions: \$20,168.35
 Average Gift: \$530.75

Pedro P. Arrabal
 Wayne L. Barber
 David C. Barnes
 Kenneth A. Blank
 Paul S. Brockman
 Charles Carroll
 Joseph P. Connelly Jr.
 Thomas W. Conway
 Brian K. Cooley
 John M. DiGrazia
 Rebecca Elmalch
 Robert J. Fadden
 Patrick F. Gartland
 Warren Gibbs
 George E. Groleau
 J. Philip Hall
 C. William Hicks III
 James D. Holt
 Constance J. Johnson
 Bruce A. Kaup
 Darryl B. Kurland
 Carole R. Lerman
 Gary M. Levine
 Mary Beth Lindsay
 James W. Miller II
 Robert A. Miller
 Andrew V. Panagos
 Steven H. Parker

Daniel M. Perlman
 Robert E. Perry
 Thomas A. Samaras
 Jerry B. Schwartz
 Marc H. Siegelbaum
 Ellen A. Spurner Coyle
 Leon Strauss
 Harry S. Strothers
 Corina J. Waldman
 David L. Waxman

1983

Number of Donors: 39
 Participation: 23.49%
 Total Contributions: \$18,676.00
 Average Gift: \$478.87

Ali J. Afrookteh
 George M. Boyer
 Harry A. Brandt
 Peter G. Brassard
 Monica A. Buescher
 Michael A. Caplan
 Blaise Chromiak
 Beverly A. Collins
 Protagoras N. Cutchis
 L. J. Eglseder III
 Grania Feddis
 Michael J. Fisher
 Neil B. Friedman
 James D. Herr
 David P. Johnson
 Mary Jo Johnson
 Roy A. Kottal
 Robert G. Loeb
 Jettrey K. Moore
 David S. Moss
 Denis J. O'Fallon
 Marc H. Paul
 Nancy Prosser
 Mark C. Regan
 Mark F. Richards
 William G. Rudolph
 Ronald N. Sakamoto
 Jeannine L. Saunders
 David J. Schamp
 Ronald H. Schuster
 James R. Sides
 Milton S. Sniadach Jr.
 Alfred D. Sparks
 James D. Spiegel
 Stuart B. Taylor
 Victoria A. Vamik
 Robert E. Walker
 Emmanuel B. Walter Jr.
 Robert V. Zawodny

1984

Number of Donors: 45
 Participation: 26.95%
 Total Contributions: \$17,165.00
 Average Gift: \$380.11

Martin A. Albomoc
 Santohmio
 Rodney Samuel Arthur
 Roy E. Bands, Jr.
 Patricia A. Barditch Crovo
 Donald M. Beckstead
 Gail S. Brook
 Susan Robey Caffie
 John F. Cary
 John R. Downs
 Lindsay Golden
 Nanette M. Gormley
 Heidi D. Gorsuch
 Todd H. Hillman
 Thomas E. Jordan
 Leslie I. Katzel
 William B. Kerns
 Theodore Y. Kim
 N. W. Koutrelakos
 Frederick E. Kuhn
 Susan M. Lancelotta
 David R. Lee
 Brad D. Lerner
 Lynn M. Ludmer
 Dale R. Meyer
 Carole B. Miller
 Edward P. Nast
 Gregory S. Pokrywka
 R. Matthew Reveille
 Paul R. Ringelman
 Isabel S. Rosenbloom
 Leroy M. Schmidt
 J. Theodore Schwartz Jr.
 Martin L. Schwartz
 Luette S. Semmes
 Matthew M. Shuster
 Dana S. Simpler
 Carmela A. Sofia
 William G. Tan
 Sharon R. Tapper
 Robert W. Tarr
 Katherine D. Tobin
 Helen E. Walker
 Jeremy P. Weiner
 Kevin K. Whitrock
 Christopher J. Zajac

1985

Number of Donors: 41
 Participation: 24.55%
 Total Contributions: \$11,424.74
 Average Gift: \$278.65

Richmond P. Allan
 Ira S. Allen
 Nicholas B. Argento
 Susan K. Arisumi
 Susan Barrows
 Wendy J. Bergman
 Joanna D. Brandt
 Margaret O. Burke
 Peter F. Burns
 Rudolph C. Cane
 John Stephen Dumlair
 Mark I. Ehrenreich
 David A. Gelber
 Frederick M. Gessner
 Daniel I. Ginsberg
 Peter R. Gray
 Robert C. Greenwell Jr.

Honor Roll 2008

Michael J. Hallowell
Sharon M. Henry
Sean E. Hunt
Thomas Bryan Johnson
Jeffrey Jones
Marc A. Kaufman
Jay K. Kolls
Donald R. Lewis Jr.
Alan R. Malout
Paul C. Marinelli
Mark S. McBride
Daniel J. Morgan
Patricia B. Patterson
Michael Platto
David W. Porter
Michael P. Ruggleman
Hani C. Sachs
S. J. Schoenfelder
Michael E. Sulewski
Mark A. Taylor
Laszlo R. Trazkovich
Robert A. VanBesien
H. Von Marensoff
Stephen P. Yeagle

1986

Number of Donors: 41
Participation: 24.55%
Total Contributions: \$8,725.00
Average Gift: \$212.80

Jonathan Jay Aarons
Fouad Mahmoud Abbas
Stephanie Harris Applebaum
Nathan E. Carnell
Eugenio Roberto China
Steven F. Crawford
James Allen Dicke
Stephen Michael Fanto
Brian K. Flowers
Scott William Fosko
Raphael Y. Gershon
David L. Gold
Albert Sydney Hammond
Sangwoon Han
Craig D. Hochstein
Paul Erick Hogsten
Kelly Ann Hunter Fanto
Elizabeth A. Janczur
Karen M. Kabat
Thomas E. Kelly
Jan M. Koppelman
Dennis Kurgansky
Joseph Gregory Liberto
Marsh Randy McEachrane
Scott A. Milsteen
Gregory K. Morrow
David W. Oldach
Donna Lynn Parker
Toby Ann Ritterhoff
Robert K. Roby
Seth D. Rosen
Judith Lynn Rowen
Barry F. Saunders
Lisa A. Scheinin
Jonathan S. Schwab
Mark Alan Smith
Nevins W. Todd III
Nicholas Visnich
Mark J. Vocci
Kathryn H. Watt
Julia Ann Williams

1987

Number of Donors: 29
Participation: 20.29%
Total Contributions: \$11,032.00
Average Gift: \$380.41

Susan Goldberg Baruch
Mark D. Bullock
Peter W. Cheng
John Gary Evans
Francesco Ferretti
Charles Patrick Fitch
Michael Patrick Flanagan
Heidi L. Frankel
Jennifer Suzanne Gass
John H. Grant III
Bruce David Greenwald
Ralph Gregg
Elizabeth Roberta Hatcher
Kevin E. Hohl
Betty Ann Kyser
G. Michael Maresca
Anne C. Mazonson
Mark Letterio Monteferrante
Thomas B. Mulford
James Paul Natario
Susan Suholet Nesbitt
Timothy D. Nichols
Jeffrey Ronald Rehm
P. Raj Seetharaman
Roger Marc Stone
Paul A. Tarantino
David M. White
Thomas S. Wilson
Shelly Wong Woodward

1988

Number of Donors: 26
Participation: 18.98%
Total Contributions: \$10,455.00
Average Gift: \$402.12

Charles Berul
Carol C. Coulson
Paula A. DeCandido
Jose E. Dominguez
Fernando J. Ferro
Mark H. Fraiman
Audrey L. French
Keith B. Gustafson
Gregg L. Heacock
Abbott B. Huang
Stephen J. Katz
Jay C. Koons
Roger J. Levin
Christopher J. Mays
Richard D. Patten
Philip C. Pieters
Shawn W. Robinson
Jeffrey P. Ross
Gail M. Royal
Joseph C. Schwartz
Jonathan A. Seidenberg
Stanley Joonho Shin
Kelley Willis Sullivan
Michael A. Wilson
Raymond A. Wittstadt
Monford A. Wolf

1989

Number of Donors: 32
Participation: 23.53%
Total Contributions: \$8,355.00
Average Gift: \$261.09

John T. Alexander
Darryn M. Band
Tracy A. Berg
Louis I. Bezold III
Patricia A. Bray
Angela I. Choe
J. William Cook IV
Michael O. Duhaney
Clantha G. Frazier
David S. Geckle
David A. Gnegy
Niloufar Guiv
Ann S. Hagen
Stephen F. Hatem
Elizabeth Lee Herrera
Judith Hutchinson
Jeanette A. Linder
Joy L. Meyer
Jean Marie Naples
Lawrence G. Narun
Mary E. Pagan
Merdad V. Parsey
David A. Riseberg
Lise K. Satterfield
David S. Scharff
David P. Smack
Kim K. Solberg
Eugene J. Sullivan
Patricia M. Sullivan
Lt Col William E. Venanz
Richard I. Weinstein
Robin Williams

1990

Number of Donors: 26
Participation: 19.12%
Total Contributions: \$6,365.00
Average Gift: \$244.81

Samuel M. Alaish
Carolyn M. Apple
David H. Balaban
Noelle Scaldara Bissell
Nicholas M. Cardiges
Vera H. Cheng
William Pierson Cook
Jennifer P. Corder
John C. Davis Jr.
Karin M. Dodge
Margaret A. Flowers
Carl E. Gessner
Marc S. Goldman
Mary K. Hoffman
Stephanie L. Linder
Kenneth J. Oken
Martin I. Passen
Nicholas G. Polis
Michael E. Rauser
Teresa Hoffman Rosen
Paul E. Shuster
James E. Thompson
Tuanh Tonnu
Dennis J. Van Zant
Michael L. Viens
Amy A. Zimmerman

1991

Number of Donors: 25
Participation: 17.61%
Total Contributions: \$3,990.00
Average Gift: \$159.60

Yared Akilili
Michael Lynn Ault
Lisa Marie Beaudet
Karen Elizabeth Brown

Elizabeth W. Capacio
Elliot Evan Cazes
Zuzana Chamrova
Beth Gail Diamond
Michael A. Dias
Robert B. Donegan
Jennifer Hollywood
Thomas B. Kelso
Jeffrey Scott Masin
Lee Anne Matthews
Lorrie Regina Mello
Arman C. Moshayed
Bertan Ogun
John Joseph Pagan
Zimon Mark Pappas
Cynthia Niemeyer Schaeffer
Christianne Schoedel
Linda E. Smully Nelson
David Lee Taragin

Chris Van Beneden
Marjorie K. Warden

1992

Number of Donors: 22
Participation: 14.67%
Total Contributions: \$3,720.00
Average Gift: \$169.09

Eligio B. Aguhob Jr.
Clint Behrend
Nechama Bernhardt
Catherine Booth Heilman
John Bridgman
Eric M. Chang
Annette Fineberg
Stuart Framm
Anthony H. Guarino
Donna S. Hanes

*The Medical Alumni Association accepted
donations in honor/memory of the following
alumni, faculty, friends, and students.*

Samuel Abrams, '54	William N. Karn, '53
Ali H. Afrookteh, MD	Lauriston L. Keown, '33
James Arnold, '66	Donald Kimmel
Milton R. Arons '30	Jack Koteen
Robert A. Barber	Edward J. Kowalewski, MD
Barbara Wei Bell '80	Walter C. Lesky '60
T. F. Bess, '14	Philip '44 & Lillian Lerman
Thomas P. Bigbee '64	Kathleen McGrady, '51
Frank Borges, '50	Nelson McKay, '57
Mitchell A. Cahan, MD	Meyer G. Miller, '33
Frank Calia, MD	Jack Morgan, '44
Nathan H. Carlner, MD	Bert F. Morton, '68
Shirley Jean Dobrzycki	Edward Quinn, '69
John C. Dumler, '32	Selma Ranundo, RN
Gregory Emery, '77	Edward P. Reese
Gertude Feldman	Paul F., '50 & Joanne Richardson
Harlan I. Firminger, MD	Harry P. Ross, '56
Paul Fosko & Maimon Cohen, MD	Ruth & Samuel Salzberg
James Frenkil, '37	Paul Schenker, '26
Mr. & Mrs. Nicolas A. Garcia Jr. & Mr. & Mrs. Marshal E. Evans	Susan Seidenberg
John E. Gessner, '54	Barbara Simpson
Ann C. Ginsberg	William N. Sterling, '55
F. Robert Haase, '47	Michael L. Walker, '72
Joanne Hatem, '81	Celeste L. Woodward, '38
Hermione Hicks	Theodore E. Woodward, '38
Neda Homayounpour, '06 & Anis Frayha, '04	H. Boyd Wylie, MD
Raymond C. Houghton Jr.	John D. Young Jr., '41
	Mr. & Mrs. Joseph Zajac
	James G. Zimmerly, '66

Honor Roll

Joseph Hsu
 David Kossott
 Jonathan Krome
 Joseph L. Manley
 Claudia Montgomery Hays
 Joyce Owens
 Lisa Kolste Rakowski
 Ronald T. Rakowski
 Richard Heston Seidel
 Joel Turner
 Rebecca Heaps Ward
 Pamela Wright

1993

Number of Donors: 29
 Participation: 20.86%
 Total Contributions: \$7,625.00
 Average Gift: \$262.93

Paulette Browne
 Lisa Collazzo
 Craig Colliver
 Virginia Carangal Collier
 Kathryn M. Connor
 Michael Cushner
 Valerie Dyke
 Vinay K. Gupta
 Marc Hamburger
 Teresa Hanyok
 Samuel Hsu
 Debra B. Hurtt
 Barbara A. Hutchinson
 Patricia Jett
 Mark William Keenan
 Karen E. Konkel
 Fave Moul Lari
 Melissa Lee
 Yong B. Lee
 Gregory Levickas
 Andy Lieberman
 Nicola A. London
 Gina Massoglia
 Douglas Seeb
 David Bryan Sigman
 Michael W. Skasko
 Christopher Welsh
 Thomas H. Yau
 Charles Yim

1994

Number of Donors: 19
 Participation: 15.97%
 Total Contributions: \$3,750.00
 Average Gift: \$197.37

Kourosh Baghelat
 Konni E. Bringman
 Michelle A. Fontenelle
 Demitrous Frazier
 Thomas A. Hensing
 Deborah S. Hopkins
 Jason A. Kaplan
 Claudia Krasnoff
 Shirley S. Lee
 Connie Marie McRill
 Bahador Moment
 Christopher P. Moore
 Jay B. Penahel
 George A. Porter Jr.
 Anthony B. Quinn
 Jon Simon
 Andrew Lawrence Smock
 Eleni J. Solos Kountouris
 Joseph Adrian Tyndall

1995

Number of Donors: 26
 Participation: 19.26%
 Total Contributions: \$3,975.00
 Average Gift: \$152.88

Melinda Battaile
 James Boler
 Michael C. Bond
 Susan Boyd
 Beth Marie Arciprete Comeau
 Kevin Dooley
 Meredith Josephs
 Jana Kaplan
 Sanford Katz
 Jessica H. Kim
 Charles Lancelotta III
 Katherine L. Layton
 James Liszewski
 Diana McClinton
 Edward L. McDaniel
 Barry Merrill
 Charlotte Harvard Miller
 William Lance Miller
 John P. Moriarty
 Duke Pao
 Wendy M. Paul
 Theodore S. Takata
 James Trumble
 David Vroman
 Scott Winiacki
 Joyce Wong

1996

Number of Donors: 30
 Participation: 19.87%
 Total Contributions: \$7,590.00
 Average Gift: \$253.00

Rebecca Appleton
 Christian Bounds
 Paula Boyle
 Maureen G. Burdett
 Brian Cantor
 Joy Collins
 Michele Cooper
 Robert F. Corder
 Marcia Cort
 Teresa Cox
 Stephen Fisher
 Ellie Goldbloom
 Janet Y. Higgins
 Charles Brett Hofmann
 Julie Hurlock
 Frederick T.D. Kaplan
 Andrea Karp
 Sara Levin
 Luis Llerena
 David Mandell
 Anne Martello
 Mary B. Martello
 Lisa Kilburg Martinez
 Lisa Miller
 Robyn Miller
 Ken Richards
 Gary Sherman
 Stephanie D. Silverman
 Angela Delclos Smedley
 Huyanh Ton

1997

Number of Donors: 33
 Participation: 21.29%
 Total Contributions: \$6,040.00
 Average Gift: \$183.03

Jennifer Bamford
 Jennifer Beall
 Gregory Berman
 Laurie Millar Bothwell
 Alicia D. Braun
 Ruwanthi Samaranyake
 Campano
 Elizabeth Campbell
 Chere Monique Chase
 Regina Clark
 Martha Clevenger
 Daniel C. Farber
 David Heydrick
 Matthew Howie
 Rachel Kramer
 Sapna Patel Kuehl
 Thomas Maslen
 Andrew Morton
 Susan Lanham Nevins
 Brian Newcomb
 Barbara Piasecki
 Victoria C. Pierce
 Y. Pritham Raj
 G. Anthony Reina Jr.
 Martina Al-Shar Reiss
 Darlene Robinson
 Heidi Ginter Shah
 Janine Smith
 Mary Ann Sorra
 Debbie Spencer
 Jane Wang
 Jay Weiner
 Edwards Ziedms
 Matthew Zmurko

1998

Number of Donors: 28
 Participation: 19.71%
 Total Contributions: \$3,430.00
 Average Gift: \$122.50

Brendan C. Berry
 Grace L. Carangal
 Herlene Chatha
 Jonathan E. Davis
 Elizabeth D. Feldman
 Tania L. Hudson
 A. Christian Iudica
 Maryam Jaberi
 Jean Jeudy, Jr.
 Erika S. Kenney
 Thomas J. Kenney III
 Lisa Steinberg LaBorwit
 Heather D. Mannuel
 Joseph P. Martinez
 Timothy J. McAveney
 Margaret E. McCusker
 James J. P. Morton
 Otha Myles
 Megan O'Brien
 Rajesh M. Prabhu
 Karen R. Raksis
 Kevin C. Reed
 Stasia S. Reynolds
 Camil N. Sader
 Rachel Exelbert Schreiber
 Mary Gover Shapiro
 Tim A. Way
 J. H. John Woo

1999

Number of Donors: 27
 Participation: 21.09%
 Total Contributions: \$4,259.00
 Average Gift: \$157.74

Martin A. Braun
 Rachel G. Burgan
 Seth M. Cohen
 Leslie Emmert Buck
 Lenny Feldman
 Robert D. Flint Jr.
 Steven D. Goodfriend
 Lindwe Greenwood
 Thomas D. Horst
 Michael P. Hutchens
 Christopher J. Jilison
 Charlotte M. Jones Burton
 Michael C. Lee
 James L. Medina
 Leo J. Motter
 Katherine H. Noe
 Susan L. Padirno
 Maurice N. Reid
 Noemi G. Romano
 Richard L. Rosol
 Andrew R. Rubin
 Mark G. Saba
 Lisa M. Soule
 Merrill T. Sparago
 Kenneth A. White
 Mallory Williams
 Alla Zilberman

2000

Number of Donors: 17
 Participation: 12.88%
 Total Contributions: \$2,315.00
 Average Gift: \$136.18

Shelleye Anne M. Bailey
 Morgen Bernius
 Tamara L. Burgunder
 Ivan D. Cardona
 Esther E. Elliott
 Amy R. Evenson
 Marjorie S. Fridkin
 Kristine M. Griffin
 Joseph M. Herman
 Nancy M. McGreal
 Allison P. Niemi
 Joanne D. Saxour
 Claudia P. Truitt
 Bradley J. Wasserman
 Jianping Yang
 Susan S. Yoo
 Thomas Chizen Yu

2001

Number of Donors: 24
 Participation: 19.51%
 Total Contributions: \$2,235.00
 Average Gift: \$93.13

Julia Anxt
 Allison W. Brindle
 Christopher Calabrita
 Rajwinder S. Deu
 Etosha Dixon
 Darren Feldman
 Josh S. Forman
 Camille Hammond
 Joseph G. Hobelmann
 Vladimir Ioffe
 Elizabeth Ives
 Jakob Kahl
 Eric Klineberg
 Teresa I. Kulie
 Burton F. Lane
 Suneel N. Nagda
 Robert Pargament
 Chinh N. Pham

Ig. Fontenelle
 Mary N. Rubin
 Shahrazad Tabibi
 Vikas Varma
 Kathy J. Weishaar
 Brent E. Yoder

2002

Number of Donors: 18
 Participation: 13.64%
 Total Contributions: \$1,375.00
 Average Gift: \$76.39

Karen L. Bauer
 Brian Corwell
 Apurva Desai
 Eve Fields
 Walid Gellad
 Matthew Hamilton
 Scott M. Katzen
 Daniel Kauffman
 Peter M. Kuehl
 Melissa Martin
 Christine Patton
 Eugenia C. Robertson
 Francis M. Segreti
 Lauren Smith
 Matthew Smith
 Andrew Stolbach
 Elissa C. Thompson
 David J. Wang

2003

Number of Donors: 23
 Participation: 17.69%
 Total Contributions: \$2,450.00
 Average Gift: \$106.52

Jared R. Berkowitz
 Stephanie Borum
 Calvin Choi
 Jason Custer
 Todd W. Flannery
 Julia B. Flukinger
 Rachel Hartman
 Bridget A. Hilliard
 Jeffrey T. Hobelmann
 Mohammed Manasawala
 Rebecca Manno
 Chilembwe Mason
 Abbe J. Penziner
 Jill Rathyen
 Susan Brown Schoenfeld
 Stacey Seidel
 Karen M. Sutton
 Jennifer Taylor
 Richard A. Tempel
 Kert Bradley Tilman
 Ann G. Tseng
 Tasos Vakkas
 Judy Wang

2004

Number of Donors: 11
 Participation: 8.27%
 Total Contributions: \$656.26
 Average Gift: \$59.66

Michael Abramson
 Mark H. Davino
 Anis Frayha
 Allison K. Hobelmann
 Christopher Hydorn
 Corinne Sokolik Jackson
 Stephen Liang

Honor Roll 2008

Amy S. Rogstad
Ryan Shugarman
Kristina Susan
Robin Veidt

2005

Number of Donors: 17
Participation: 12.50%
Total Contributions: \$770.00
Average Gift: \$45.29

Patrick R. Aquino
Robert B. Boughan
Natalie M. Branagan
Jason R. Cornelius
Michelle A. Folsom
Nicole S. Gable
Christopher K. Grybauskas
Kimberly M. Kesler
Bryan J. Loeffler
Amer Malik
Janelle M. Martin
Nora C. Meenaghan
Danica Novacic
Seema A. Patil
Marissa J. Perman
Gareth J. Warren
Regina F. Wong

2006

Number of Donors: 16
Participation: 11.51%
Total Contributions: \$587.00
Average Gift: \$36.69

Kathryn E. Berryman
Jeremy Bock
Mark Domanski
Julie Fifer
Katherine Goetzinger
Neda Homayounpour
James C. Johnston
Leah C. Jones
William Kanner
Joanna Kroll
Regina A. Macatangay
Jeffrey Mindel
Robert R. Redfield III
Mark Schneyer
Cathleen Sybert
Usman Zahir

2007

Number of Donors: 19
Participation: 12.10%
Total Contributions: \$783.00
Average Gift: \$41.21

Ishita Arya
Connie Chan
Alice Cheong
Timothy Chizmar
Ashleigh Hicks
Nicole Hunt
Adriana Jones
Elisa Knutsen
Amanda Kramer
Bradley Kramer
Tania Markowski

Thomas Merkle
Megan Niziol
Selina Read
Jennifer Reese
Maurice Sheppard
Brian So
Alan Spiegel
Roger Wu

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Jules Caban, MD
E. W. Campbell, Jr., MD
Charlotte Ferencz, MD
Kevin S. Ferencz, MD
Michael L. Fisher, MD
Ronald W. Geckler, MD
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Appointments to National Organizations



Ronald B. Gartenhaus, MD

Ronald B. Gartenhaus, MD, associate professor, department of medicine and program in oncology, has been invited to join the editorial board for *Cell Biology Insights*.



Martin J. Edelman, MD

Martin J. Edelman, MD, professor, department of medicine, has been appointed an associate editor for the journal *Lung Cancer*.



Patricio O'Donnell, MD, PhD

Patricio O'Donnell, MD, PhD, professor, department of anatomy & neurobiology, has been appointed to the scientific council of the National Alliance for Research in Schizophrenia and Affective Disorders, one of the largest foundations supporting mental health research, focusing on schizophrenia and affective disorders.

Marcela F. Pasetti, MD, assistant professor, department of pediatrics and center for vaccine development, has accepted an invitation from the Department of Health and Human Services to serve as a member of the vaccines against microbial diseases study section, center for scientific review. The term of appointment began July 1 and runs through June 30, 2012. Members are selected on the basis of their demonstrated competence and achievement in their scientific discipline as evidenced by the quality



Marcela F. Pasetti, MD

of research accomplishments, publications in scientific journals, and other significant scientific activities, achievements and honors.

Larry D. Weiss, MD, JD, FAAEM, professor, department of emergency medicine, was elected to a two-year term as president of the American Academy of Emergency Medicine at the organization's annual scientific assembly, which was held in Amelia Island, Florida, in February 2008.

Awards & Honors

Timothy B. Gilbert, MD, MBA, MSc, FACC, professor and vice chair, department of anesthesiology, and professor, department of medicine, was awarded the 2008 distinguished service award for his service as an officer, board director and long-standing member of the Baltimore City Medical Society. Gilbert has been a member of the Baltimore City Medical Society since 1992.



Timothy B. Gilbert, MD, MBA, MSc, FACC

Miriam Laufer, MD, assistant professor, department of pediatrics and center for vaccine development, has received the clinical scientist development award from the Doris Duke Charitable Foundation. Her project, "Malaria in Pregnancy," which is funded by this award, will identify the timing of maternal peripheral malaria infection that causes placental infection and also will determine the vulnerable period during pregnancy when malaria infection is most likely to cause low birth weight, pre-term delivery and maternal anemia.



Miriam Laufer, MD

Stephen B. Liggett, MD, professor, departments of medicine and physiology, was inducted into the Interurban Clinical Club in Boston on April 4, 2008. Founded by Sir William Osler in 1906, the organization consists of physician investigators from Baltimore, Boston, Philadelphia, New Haven, and New York.



Stephen B. Liggett, MD

Events, Lectures & Workshops

Maria R. Baer, MD, professor, department of medicine and program in oncology, was an invited speaker at the Acute Leukemia XII conference in Munich, Germany, in February 2008. She also chaired an educational session entitled "Evaluating, Treating and Supporting Older Adults with Acute Leukemia" at the 2008 American Society of Clinical Oncology annual meeting in Chicago in June 2008, and gave a talk entitled "Acute Leukemia Biology and Treatment Response in Older Adults" as part of the session.

Thomas Blanpied, PhD, assistant professor, department of physiology, and a recent R01 National Institute of Mental Health (NIMH) grantee, was one of four new NIMH investigators invited to present research at the 218th meeting of the National Advisory Mental Health Council open policy session in Bethesda, Md., in May 2008. Blanpied's R01 (which was funded at the 0.8th percentile), is entitled "Internal Dynamics of the Postsynaptic Density."



Thomas Blanpied, PhD

Brian J. Browne, MD, professor, **Amal Mattu, MD**, associate professor, **Robert L. Rogers, MD**, assistant professor, **Michael E. Winters, MD**, assistant professor, **Fermin**

Barrueto, MD

clinical assistant professor, and **Roger Stone, '87**, clinical assistant professor, all from the department of emergency medicine, were invited participants at the 14th annual scientific assembly of the American Academy of Emergency Medicine. This symposium, considered one of the premier events in emergency medicine education, was held on Amelia Island, Florida, in February 2008.



France Carrier, PhD

France Carrier, PhD, assistant professor, department of biochemistry & molecular biology and program in oncology, gave an invited presentation at the inaugural International Conference on Drug Design

and Discovery in Dubai, United Arab Emirates, in February 2008. The title of the presentation was "Molecular Understanding of Histone Deacetylase Inhibitors (HDACIs) Efficiency in Cancer Cells."

Rudolph J. Castellani Jr., MD, professor, department of pathology, presented "Prion Diseases in the United States" at the International Congress for Neuroprotection and Neuroplasticity in Bucharest, Romania, in March. Additionally, Castellani presented "Prion Diseases in the Baltimore, Maryland Area: A Recent Survey" at the American Association of Neuropathologists Meeting in San Diego in April 2008.



Niel Constantine, PhD

Niel Constantine, PhD, professor, department of pathology, was an invited speaker for the HIV Congress 2008 in Mumbai, India, in March 2008. In his presentation, "Point of Care Testing and Monitoring for HIV

Infection," Constantine informed the group of 400 participants about newer technologies

appropriate for HIV identification and manual CD4 monitoring of infected persons in physician offices, public health clinics and health care facilities in remote venues. Constantine also chaired a scientific session.

Steven Czinn, MD, professor and chair, department of pediatrics, chaired a topic forum session, "Immunopathogenesis of H. pylori Infection," and presented a paper entitled "Vaccine-induced Protective Immunity against Helicobacter pylori is IL-23 Dependent" at Digestive Disease Week in San Diego in May 2008.

Timm-Michael Dickfeld, MD, PhD, assistant professor, department of medicine, presented an abstract entitled "AV- Freeze: Prospective Safety Assessment of Cryo-Effects on the Human AV Node" at the meeting of the American College of Cardiology in Chicago in March 2008. This study demonstrated that unwanted effects of cryoenergy can persist in a large number of patients.



Jack Gladstein, MD



Steven Czinn, MD



Timm-Michael Dickfeld, MD, PhD

Jack Gladstein, MD, associate professor, department of pediatrics, presented a two-hour course on controversies in pediatric headaches at the American Headache Society annual meeting in Boston in June 2008.

Michelle Kush, MD, assistant professor, department of obstetrics, gynecology & reproductive sciences, presented at the Food and Drug Administration spring 2008 maternal health team course. Her topic was "Drug Treatment Used in the Management of Pre-eclampsia: What is effective? What are the Standards of Care?"

David Mallott, MD, associate dean for medical education and associate profes-

sor, department of psychiatry, was an invited speaker at the Society for Inherited Metabolic Disorders 2008 annual meeting in Pacific Grove, California, in March 2008. His presentation was entitled "When Should Psychiatry Consult the Metabolic Specialist"

Kathleen Michael, PhD, MSN, assistant professor, department of medicine, presented "Motivators for Exercise after Stroke" at the 2008 International Stroke Conference in New Orleans in February 2008.

Feyruz Rassool, PhD, associate professor, department of radiation oncology and program in oncology, was an invited speaker at a seminar series entitled "ROS, DNA Damage and Errorprone Repair: A Model for Genomic Instability in Myeloid Malignancies" in Munich, Germany, in June 2008.

Alan Shuldiner, MD, Whitehurst Professor of Medicine, and director, program in genetics and genomic medicine, presented "Pharmacogenomics of Anti-platelet Agents" at the PGRN-Riken-ISSX workshop on pharmacogenomics in Tokyo in February 2008. The purpose of the meeting was to stimulate collaboration between U.S. and Japanese scientists in the area of pharmacogenomics. He also presented "Translating Type II Diabetes and Related Traits Whole Genome Association Studies" at the National Institutes of Health's genes, environment and health initiative symposium on translating whole genome association data into clinical practice in Bethesda, Md., in March 2008. The purpose of the meeting was for experts to review the state of the field and to identify barriers to implementing personalized medicine in the clinical setting. Additionally, Shuldiner presented "Pharmacogenomics of Antiplatelet Agents" at the international conference on pharmacogenomics, in Busan, Korea, in April 2008.

Sanford A. Stass, MD, professor and chair, department of pathology, and inter-



David Mallott, MD



Alan Shuldiner, MD

faculty

chair, department of medical & research technology, moderated a session called "Expanding the Biomarker Pipeline" at the National Cancer Institute's 5th annual early detection research network scientific workshop in Bethesda, Md., in March 2008.



Sanford A. Stass, MD



Loren P. Thompson, PhD

Loren P. Thompson, PhD, associate professor, department of obstetrics, gynecology & reproductive sciences, was an invited speaker at the international conference on high risk pregnancy and fetal

maternal medicine in Xian, China, in May 2008. His lecture was entitled "Impact of the Adverse Intrauterine Environment on Fetal Growth and Organ Function."

George Wittenberg, MD, PhD, assistant professor, department of neurology, gave a presentation at the National Institute of Aging's laboratory of cognition and personality entitled "Brain Activity in Activities of Daily Living: Practical Motor Function before and after Stroke" in Bethesda, Md., in February 2008.

Book/Textbook Publications

Amal Mattu, '93, associate professor, department of emergency medicine, and **William J. Brady, MD**, from the University of Virginia in Charlottesville, co-edited ECGs for the Emergency Physician.

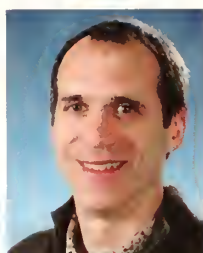
Volume 1, now in its seventh printing, has been on Blackwell's bestsellers' list since 2005 and has been trans-



Amal Mattu '93

lated into Portuguese and Polish. Volume 2 of this text was published in April 2008. The two volumes contain one of the best collections of high-quality electrocardiograms (ECGs) ever assembled for acute health care providers.

Grants & Contracts



Michael S. Donnenberg, MD

Michael S. Donnenberg, MD, professor, department of medicine, received a \$1,166,667 grant from the National Institute of Allergy and Infectious Diseases to fund years 17 through 21 of his work entitled "The Eae Gene Cluster of Enteropathogenic E. coli."



H. Moo Kwon, PhD

H. Moo Kwon, PhD, professor, department of medicine, received a five-year \$1.6 million competitive renewal R01 grant from the

National Institute of Diabetes and Digestive and Kidney Diseases for his work entitled "Tonicity Signaling to TonEBP Transcription Factor."

Margaret M. McCarthy, PhD, professor, department of physiology, received a five-year \$1,024,519 competing renewal National Institutes of Health pre-doctoral training grant from the National Institute of Neurological Disorders and Stroke for her work entitled "Training Program in Neuroscience."



Margaret M. McCarthy, PhD

James Nataro, MD, PhD, '87, professor, department of pediatrics and center for vaccine development, received a four-year \$3,414,292 grant from the National Institute of Allergy and Infectious Diseases entitled "Live Attenuated Bacterial Vaccines against

Plague." This grant will provide support for final pre-clinical development of a Salmonella-based platform technology, the ultimate intent of which is to provide protection against anthrax and plague in a single vaccine, combined with protection against typhoid fever provided by the vector itself.



James Nataro, MD, PhD, '87

Feyruz Rassool, PhD, associate professor, department of radiation oncology and program in oncology, received a three-year \$1,500,000 Maryland Stem Cell Exploratory Research Grant from the Maryland Technology Development Corporation for "Dissecting the Genetics and Epigenetic Origins Underlying Tumorigenic Potential of Human Embryonic and Adult Stem Cells."

Edward Sausville, MD, PhD, professor, department of medicine and program in oncology, received a five-year \$4,000,350 K-12 Paul Calabresi Award for Clinical Oncology and a five-year \$2,903,548 U01 award for "Early Clinical Trials of New Anti-Cancer Agents" from the National Cancer Institute. Sausville's co-investigators on the last award are **Martin Edelman, MD**, professor, **Maria Baer, MD**, professor, and **Ivana Gojo, MD**, associate professor, all from the department of medicine.



Edward Sausville, MD, PhD

David W. Scott, PhD, professor, departments of surgery and microbiology & immunology and center for vascular and inflammatory diseases, received a five-year \$1,250,000 grant from the National Institutes of Health for his work entitled "Induction of Tolerance-Factor VIII in Hemophilic Mice."



David W. Scott, PhD

advancement

Endowed Professorships Established in Surgery, OB-GYN

Surgery and obstetrics, gynecology and reproductive sciences are the latest beneficiaries of endowed professorships established in their respective departments.

Tremendous strides have been made over the past decade in the department of surgery. Faculty members are engaged in scores of research investigations including anti-rejection drugs, laparoscopic surgical techniques, and artificial organ usage, with the ultimate goal of improving outcomes for patients who require surgical procedures.

Recently, the department received a philanthropic boost when the Hales Family Foundation made a \$2.5 million contribution to establish The Thomas E. and Alice Marie Hales Distinguished Professorship in Transplant Surgery.

"The gift is intended to provide resources for thoracic transplant surgery and related research in order to continue to cure patients with diseased organs through transplant surgery," explains Thomas Hales.

The first Hales Distinguished Professor will be Bartley P. Griffith, MD, professor of surgery, chief of the division of cardiac surgery, and director of heart and lung transplantation. Griffith's clinical work

focuses on treating patients with the most severe forms of heart and lung disease while his research concentrates on heart and lung transplantation and the use of artificial organs.



M. Carlyle Crenshaw Jr., MD

"This is a wonderful commitment by the Hales Family Foundation," says Griffith. "Their contribution signifies their confidence in the research and clinical care being conducted here at Maryland and specifically within the department of surgery."

For fifteen years, M. Carlyle Crenshaw Jr., MD, served as chairman of the department of obstetrics & gynecology where he cared for patients, trained residents, and advanced research in high-risk maternity care. During his tenure, Crenshaw impacted the lives of countless patients, residents and colleagues.

Now his legacy will inspire others for generations to come. Through a generous planned-gift commitment, Crenshaw's wife, Lillian Blackmon Crenshaw, MD, has established the M. Carlyle Crenshaw Jr., MD Professorship in Maternal-Fetal Medicine.

The endowed professorship will allow the medical school to recruit future physicians with the same superior skills and unyielding zeal for medicine as its former chairman.

"My husband had a wonderful career in medicine," comments Blackmon Crenshaw. "This gift is my way of recognizing him and his many contributions to the profession he loved."

Blackmon Crenshaw, who served as clinical associate professor in the department of pediatrics, has also established an endowed fellowship program within her former department's division of neonatology.

"The Crenshaws treated many of the same high-risk mothers and their infants throughout their respective careers," explains Hugh E. Mighty, '82, professor and chairman of the department of obstetrics, gynecology and reproductive sciences. "These wonderful gift commitments ensure that high-risk mothers and their infants will receive the same outstanding standard of care that these two excellent physicians provided during their careers." 🏡

"This is a wonderful commitment by the Hales Family Foundation. Their contribution signifies their confidence in the research and clinical care being conducted here at Maryland and specifically within the department of surgery."

In the Eye of the Heparin Storm

By Bill Atkinson

Alexis M. Elward, '94, was hoping to finish up work late Friday afternoon on January 4 so she could spend time with her two young children. Then her phone rang. On the other end of the line was the dialysis unit at St. Louis Children's Hospital with an urgent message: two young patients were having a severe reaction to their dialysis treatment. Their tongues and eyelids had swollen, their hearts were beating rapidly, and their blood pressure had plunged. Two other patients had similar reactions just weeks earlier.

"These kids were on hemodialysis, something they couldn't live without for very long," says Elward, a pediatrician who specializes in infectious diseases at Washington University School of Medicine in St. Louis. The call thrust Elward into a nearly two week investigation and the biggest case of her career. Not only was she a co-leader of a team that uncovered the problem—the blood thinner heparin—but their actions undoubtedly saved lives.

Indeed, implications of the discovery were far reaching. Baxter International Inc., a global health care company, was forced to recall the tainted drug, recording a \$19 million charge in the first quarter of 2008. And U.S. regulators with the Food and Drug Administration zeroed in on a dozen companies in China that manufactured and distributed heparin to the U.S. and ten other countries.

Elward, age 42, steps in when other physicians can't figure out why a patient is sick. She is a physician, but part investigator who is deft at asking questions and getting to the bottom of the problem. Her world is one of infections, parasites, pathogens, bacteria, unusual viruses, and bugs so strong they are resistant to drugs. "Any organ can be involved," Elward says. "One has to be a good pediatrician and a good internist. We're looking at the whole patient."

Elward grew up in Annapolis, Md., the older of two children. Her father is an attorney and her mother a nurse. "I was exposed to healthcare at an early age," says Elward, who as a youngster worked for an internist preparing slides and doing urinalyses. During her teen-



age years she volunteered as a Candy Stripper at the local hospital. And later, although majoring in philosophy at Loyola College in Baltimore, she took pre-med courses and volunteered in an emergency room. "It was pretty amazing to see desperately ill people recover," she recalls.

Elward attended the Johns Hopkins Bloomberg School of Public Health before beginning medical school at Maryland. She trained at St. Louis Children's Hospital, serving as chief resident in pediatrics in 1997.

Shortly after receiving that memorable telephone call on January 4, a crisis team of about 20 members was put together with Elward named as a co-leader. Members reviewed every instrument in the dialysis room, listed the names of medications the patients were receiving, reviewed endotoxin levels, tested the water for heavy metals, probed for bacteria and chemicals, and reviewed the foods the patients had eaten. The team bombarded the microbiology lab with about 50 cultures, and members even scouted to see if latex, which can cause life-threatening allergic reactions, was the culprit. "Could it have slipped in?" Elward wondered.

They contacted the U.S. Food and Drug Administration (FDA), Missouri Department of Health and Senior Services, and posted warnings on the Internet. Elward conducted a literature search to see if she could find any common threads. Her search led her to the Center for Disease Control (CDC), which had written about allergic outbreaks in dialysis units. After explaining the situation, the agency posted the information and more cases of patients having reactions during dialysis poured in. Soon the team was able to see a pattern, and all clues pointed to the blood thinner.

The crisis thrust Elward into the national spotlight, and her performance received high praise. "It was a huge effort," she says, applauding the swift actions of the FDA, CDC, Baxter, and her colleagues. "We had a lot of brilliant minds around this one."


Since January, the hubbub has died down and Elward's life is back to normal, which means there is more time for her children. "I enjoy being both a doctor and a mom," she says. 

Photo courtesy of the University of Washington School of Medicine in St. Louis

The Human Touch

ALUMNA

PROFILE:

Donna S. Hanes, '92



Hanes from the 1992
Terra Mariae Medicus



When she was five years old, Donna S. Hanes, '92, made an announcement to her parents: she was going to become a doctor. "I pictured myself being a small town doctor out in the country," she recalls. "It was a nice quiet setting for a five-year-old girl."

In 1992, she fulfilled her dream by graduating from Maryland. But her life is far from the bucolic country setting she pictured as a child. Hanes is a single mother with a 10-year-old son. She has a dog, grinds out a long commute each day, lives in the city and, at any one time, has 40 medical students under her tutelage as the clerkship director for internal medicine. What's more, she heads a 75-patient dialysis unit in Baltimore, is director of senior medical rotations, and is an associate professor of medicine—not to mention her activities outside of work. "I had no idea growing up that things were like this," Hanes admits. "My life is very busy, but it works. I love it."

At 43, Hanes' spirited personality has already left an indelible stamp on the medical school. And she is having an impact on the group that may count the most—the students. Last spring she was selected by the students to receive the golden apple award, a coveted prize honoring the school's top clinician. She also was selected for a humanism award for her caring and compassionate demeanor.

"There are a lot of great teachers at the university but only a few who stand out to everybody almost universally as being great teachers and she is one of them," says **Timothy Dougherty, '08**, who now interns at George Washington University Medical Center.

Hanes says she was "shocked" and "overwhelmed" by the awards. "I think it was just my exposure to the students. They know that I care," she says.

If the patients at the dialysis clinic in Baltimore had a say in the matter, they, too, would have voted for Hanes. Twice a week she works at the clinic seeing about 75 patients, most of whom live below the poverty line. Some are on Medicaid, some are homeless, and most are from Baltimore's inner city. "To them, a dollar is a really big deal," she says.

It is at the clinic where Hanes can connect with her patients. She jokes with them, asks them about their families, and quizzes them on

their diet. She'll even chide them for admitting to eating salty foods.

"She is wonderful with her patients," says **Neda Frayha, MD**, a third-year internal medicine resident at the medical center who shadowed Hanes for a day at the clinic. "They clearly loved seeing her. They were always so happy and full of smiles. And she could tell me their entire stories just by glancing across the room."

"There are a lot of great teachers at the university but only a few who stand out to everybody almost universally as being great teachers and she is one of them."

Hanes admires her patients' determination to make it to the clinic three times a week for their four-hour dialysis treatments. Some patients wake up at 4 a.m., to begin a four-hour journey to the clinic, hopping from one city bus to the next. "It amazes me," Hanes says.

What makes Hanes so special is that she comes across as the plain spoken, compassionate, country doctor that she dreamed of as a little girl. She connects with her patients, understands her students' struggles, and is intensely smart. She can teach at a sophisticated level, but isn't afraid to joke around or chat about her favorite football team—the Washington Redskins.

Like her students and patients she labors to juggle the demands of a busy life. "She would be a fantastic role model for anyone who is going to have kids or who eventually will have kids," Dougherty adds. "It is nice to see someone who is making it work."

"She shares things about her own life with the students," says Frayha. "She is very approachable."

Hanes' 10-year-old son is the most important part of her life. She is all business when arriving at the medical school, jamming as much into her day as possible; so she can get out the door and head home to Christopher, who plays baseball and loves cars. "I refused to get a nanny because doing so would allow me the flexibility of not getting home in a timely manner. The way things are now, I have to leave when I have to leave," she says.

Outside the office she is involved in a variety of activities from mentoring Montgomery County High School students to serving as parent council president for her son's school where she raises money to fight various diseases.


One of four children, Hanes grew up outside of Washington, D.C. Her father sold insurance for a time but later opened a store selling wallpaper (which he continues operating today), while her mother was a school teacher.

Because she always loved the idea of becoming a doctor, Hanes began looking for ways to learn about medicine. In high school she worked at a health clinic, and in college she joined the Rockville Volunteer Fire Department where she received training as a paramedic. But it was her third year of medical school—and meeting **Frank M. Calia, MD**—that shaped her as a teacher. As chairman of medicine, Calia knew every student by name even before they started his rotation. Calia was also a favorite of the students, receiving 21 teaching awards during a distinguished career.

"It was so impressive yet so disarming that the professor would take the time to go out of his way to know which students were coming on his rotation," Hanes says. "It forced us as students to be engaged and involved because we knew he was watching. It forced us and encouraged us to be active participants, which enriched the experience. That episode shaped me as a teacher."

What makes Hanes so special is that she comes across as the plain spoken, compassionate, country doctor that she dreamed of as a little girl. She connects with her patients, understands her students' struggles, and is intensely smart.

After graduating in 1992, Hanes remained at Maryland for her internship and residency. In 1995, she did a fellowship in nephrology and a year later was voted chief resident primarily because of her knack for teaching. By 1998, Hanes was directing the nephrology fellowship program and in 2001 was named clerkship director.

While she has patterned herself after her mentor, Hanes' style is clearly all her own. "She is her own person and genuinely loves her job," Frayha concludes. 

Professionalism: A 50-Year Evolution

By Caitlin Dolan



Gaylord Clark, '58

In 1958 it was a student—not a faculty member or administrator—whose persistence led to the establishment of

the school's first honor code. These efforts planted the seeds for today's HELPERS-PRO, a comprehensive professionalism project for students and faculty. But for **Gaylord Clark, '58**, getting the ball rolling wasn't easy.

When Clark arrived at Maryland in the fall of 1954, he was dismayed by the absence of a formal doctrine that would hold students and faculty to high ethical and professional standards. He felt this created a "great deficit in training," and he decided to take action.

Clark drafted a document suggesting "an unswerving allegiance to the highest principles of personal honor," adding that there was unanimous agreement of what honorable conduct excluded: cheating, lying, bearing false witness, and unbecoming conduct. His proposal called for the creation of an honor council that would investigate claims of misconduct.

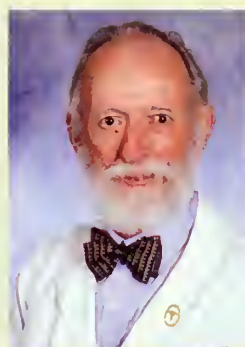
He took his proposal to the dean's office. "There was tremendous faculty support," recalls Clark. "**Dean H. Boyd Wylie** wanted an honor code, but there was the matter of introducing it to the students and getting their approval on it."

Clark's proposal was rejected—not just the first year but the following two years as well. An editorial in the

May 1957 SAMA Newsletter summarized the opposition: "... the incorporation of an honor enforcement code, was to many, a belittlement of their own honor. It was thought by them that the medical student is by his thorough screening, incapable of dishonorable actions."

Undaunted, Clark persisted. A fourth draft during the 1957-1958 school year won approval of students and faculty alike, behind the encouragement of **Dean William S. Stone**. And the first judicial council, elected by the student body, installed Clark as chairman.

Today a judicial board continues to meet regularly to investigate incidents of student misconduct, but the school has become more pro-active in its efforts to ensure professionalism and



John A. Talbott, MD

high ethical standards. "We instituted significant curricular reforms in 1994," recalls **John A. Talbott, MD**, professor in the department of psychiatry. "But

by the late 1990s, there was growing concern that something was missing, and it became evident that a comprehensive code was necessary. One that covered everyone and every situation. Everything from research fraud to cheating had to be covered to make professionalism succeed," he says.

Dean Donald E. Wilson and Vice **Dean Frank M. Calia** approached Talbott—who was on the verge of retirement—and asked him to investigate the matter. Over the next nine months, Talbott observed and critiqued the admissions process, attended curriculum meetings, and immersed himself in the four-year experience of a medical student. "I interviewed all of the course directors and listened to their views on what more could be done," Talbott says.

Their suggestions and recommendations were incorporated in a report known as HELPERS-PRO, which subsequently became the name of the professionalism project. It encompassed Humanism, Ethics, Life-long learning, Physicians subordinating themselves to their patients, Ethical behavior, Research subjects, Sensitivity to age, culture, disability, diversity and gender, Professionalism, Respect for patients, families, and colleagues, and Other (death and dying, impairment, sexual and aggressive behavior, physician/industry relationships (<http://medschool.umaryland.edu/professionalism/Report.asp>)).

As a result, there are now bi-annual reviews to help identify students in distress or engaging in inappropriate behavior, and there are symbolic events to remind them of the profession's high ethical standards. Included are the white coat ceremony when first-year students sign an honor registry, a student clinician ceremony for the third-year class about to begin rotations, as well as a humanism awards ceremony at the conclusion of each academic year. Faculty and house

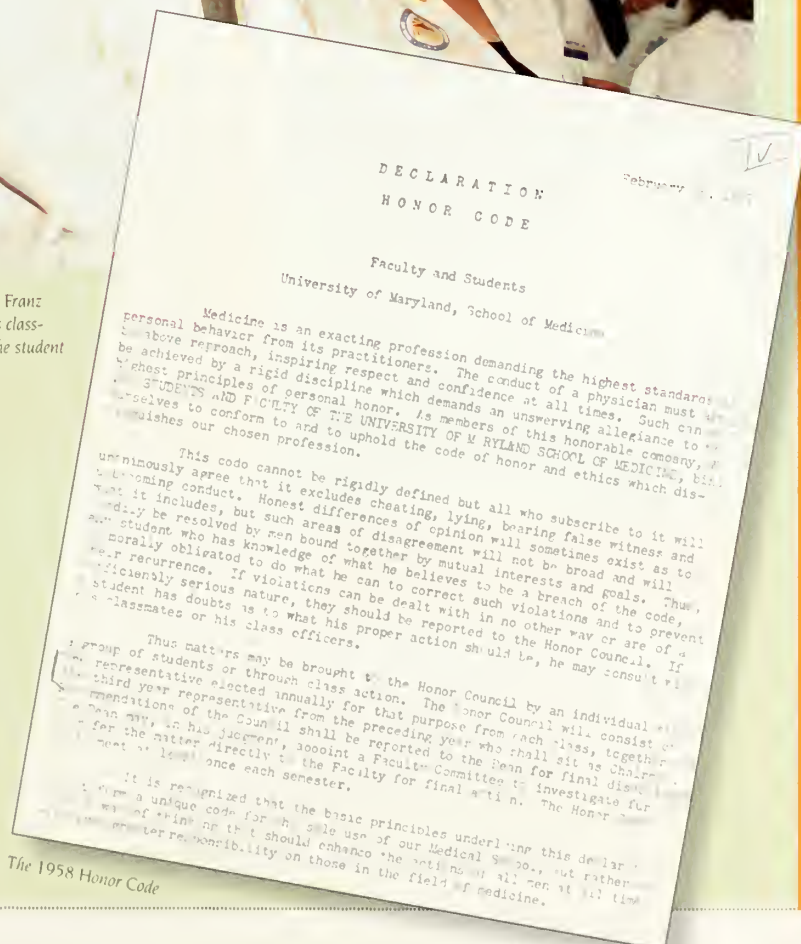
staff are held to the same standards, but complaints of misconduct for those with hospital appointments are adjudicated by a separate committee.

It is clear that the medical school has worked diligently in recent years to advance the work begun by Clark 50 years ago. And although there exists no hard data to confirm it, Talbott believes significant progress has been made.

"But this is an on-going process," he concludes. 🏛️



Third-year student Franz Yanagawa joins his classmates in reciting the student clinician oath



Class of 2012 Checks In

The incoming class of 2012 is following recent trends: it was selected from one of the largest applicant pools in the school's history, has a female majority, and 75% are from Maryland. The class of 160 reported for orientation on August 7 with classes formally beginning six days later. Students range in age from 21 to 37.

Class of 2012 at a Glance

Total Number of Applicants: 4584

Class Size: 160

Percentage of Resident/Non-

Resident Matriculants: 75/25

Percentage of Male/Female: 43/57

Percentage of Under-represented

Minorities: 13

Age Range in Years: 21-37

Number of Colleges/Universities

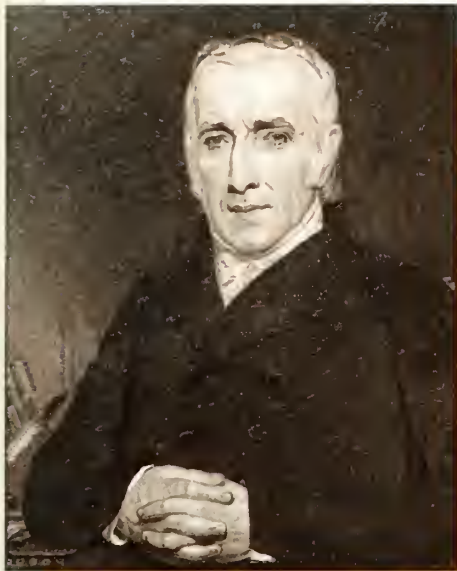
Represented: 71

Number of Different Undergraduate

Majors: 37

Average GPA: 3.69

Average MCAT Score: 31



Dr. Thomas E. Bond

200 Years Ago

In 1808, the college's first seven students experience the loss of two faculty members due to ill health. Both Dr. Donaldson, professor of the institutes of medicine, and Dr. Bond, professor of materia medica, withdraw from their positions at the medical school. The original seven students also say goodbye to Dr. Shaw who succumbs in January 1809 before the close of the session. Because Dr. Potter does not expect to begin teaching until December 1808, the only lectures completed during the first session are those which had begun on December 18th, prior to the founding of the College.

80 Years Ago

In 1928, Theodore M. Davis, class of 1914, in collaboration with an electrical engineer, invents the electromagnetic switch, permitting the use of the cutting current and coagulating current through one electrode. The invention establishes Davis as the father of the modern approach to transurethral surgery and prostatic resections. His contributions to urology merit consideration of a Nobel prize in 1965.



Theodore M. Davis, '14



Francis J. Borges, '50

55 Years Ago

In 1953, the first cardiac rehabilitation program is established in Maryland by Francis J. Borges, class of 1950. Others throughout the country are influenced by the model Borges creates. His special interest in cardiac diseases and renal disorders—as they effect a patient's functioning ability—heavily influence him in his work. Borges is made a full professor and director of the medical outpatient clinic at Maryland's hospital in 1972.

recollections

A look back at America's fifth oldest medical school and its illustrious alumni

classnotes

1940s **1943M:** Ralph K. Brooks of Annapolis, Md., looks forward to the 70th class reunion in 2013 after an enjoyable 65th in May with classmates Irv Taylor and Bill Hagen **1946:** Milton Reisch has been enjoying winters in Plantation, Fla., and summers in Yonkers, N.Y., since retirement in 2005. He was elected to AOA in April, and he enjoys his great grandson Ethan.

1950s **1950:** Thomas N. Corpening of Houston continues working every day. **Frank T. Kasik Jr.**, of Baltimore celebrated his 90th birthday in June and enjoys retirement with his five children, 14 grandchildren, and eleven great grandchildren. **1951:** Eugene B. Rex of Winter Park, Fla., is getting his golf game back in shape after hip replacement surgery last September. He also enjoys spending time with grandchildren. **1954:** James H. Teeter of Waynesboro, Pa., retired from his surgical practice last December at age 80. He reports that grandson Mark is interested in medicine and would like to attend Maryland. **1955:** Murray M. Kappelman of Baltimore received the 2008 lifetime achievement award from the American Association of Pediatrics. **1956:** Gilbert E. Hurwitz of Bethesda, Md., retired on January 1, 2008. **Joseph S. McLaughlin** of Baltimore is president-elect of the Baltimore City Medical Society. **1957:** Harvey R. Butt of Annapolis, Md., enjoys retirement with wife Barbara and their children and grandchildren. **Walter M. Shaw** of Bonita, Calif., reports that the memories of their 50th medical school anniversary last year remain fresh in his mind, and he wishes classmates the very best. **1959:** August D. King Jr., and wife Netta of Lutherville, Md., celebrated their 50th anniversary in September and are blessed with five children and 13 grandchildren.

1960s **1960:** Jerome J. Ross of Baltimore reports his blue and white '54 Kaiser Manhattan was used in the new movie *My One and Only*, filmed around Baltimore and starring Rene Zelweger and Kevin Bacon. The movie should be released next year. **Merrill T. Syphus** is practicing

general surgery and general medicine in his hometown of St. George, Utah. **1963:** B. Robert Giangrandi of Ellicott City, Md., is enjoying retirement from both his private practice and the administration at St. Agnes Hospital. **1964:** Barry M. Cohen of Hagerstown, Md., reports that he is fighting metastatic melanoma. **Samuel Muher** of Owings Mills, Md., is retired. **1965:** William H. Choate of Mayo, Md., proudly reports that an autistic boy he has been helping for four years at South River High School graduated with honors in June. **Ann Robinson Wilke** of Advance, N.Y., reports that her son, Maj. William A. Wilke, returned from Iraq in July, and his first request was for steamed crabs and beer! She and husband Robert recently traveled to the Galapagos Islands and South Africa. **1966:** Stephen F. Gordon of Savannah, Ga., reports that daughter Penny was made a tenured associate professor at the University of North Carolina Medical School. Her major interest is pediatric obesity. **John E. Steers** of Westminster, Md., reports that son John, '88, is a general surgeon at the Carroll Hospital Center. **Beresford Swan** of Hamilton, Bermuda, is a consultant to the Hemodialysis center that bears his name at Bermuda Hospital following his retirement from clinical practice in July. **1967:** Allan S. Pristoop of Owings Mills, Md., reports that son Rafi is a teaching hospitalist at Kings County Medical Center after completing his senior residency in medicine. **1968:** Charles S. Samorodin and wife Lucy of Ruxton, Md., have a grandson, thanks to daughter Janet, a pediatrician, and son-in-law Chris, a family practitioner in New Mexico. **Jon M. Valigorsky** of Pittsfield, Mass., continues teaching in the medical and pathology residency program after retiring in July. **1969:** Leon Reinstein of Baltimore is chair of the AMA Specialty and Service Societies. The SSS caucus represents 135 medical specialty and military societies at the AMA House of Delegates. Reinstein is associate physiatrist-in-chief at Sinai Hospital. **Mark S. Sugar** of Fountain Valley, Calif., is president of the California Society of Allergy, Asthma & Immunology.

1970s **1970:** C.B. Marek Jr. of Lutherville, Md., has retired after 38 years in practice and now plans to travel. **1972:** Deborah Brandchaft Matro of Westfield, N.J., reports that daughter Jennifer graduated from the University of Pennsylvania Medical School, daughter Becky graduated from Jefferson Medical School, and son Daniel completed his first year at Stanford Law School. **Elizabeth R. Brown** of Silver Lake, N.H., retired this year. **Sumner H. Goodman** of Loudonville, N.Y., reports that he is still ticking. **John Niziol** and wife Barbara of Wayne N.J., report that daughter Megan, '07 was married in Ireland over the summer. **Martin S. Rosenthal** of Chevy Chase, Md., earned his MPH degree in May from the Medical College of Wisconsin. **Ronald Staubly** and wife Helen of Mt. Pocono, Pa., celebrated their 40th wedding anniversary in February. He retired from the U.S. Army Reserves as a colonel in August after 30 years of service which included deployments during the first Gulf War, to Bosnia, and in 2003 to Baghdad. He is now a locums geriatrician working for the Wanganui District Health Board in New Zealand and reports that all three children are doing well. **1974:** David Zisow and wife Marcie of Pikesville, Md., are proud grandparents of Emily Kate, born March 7, and Samara Hope Silverman, born May 10. Zisow is a gynecologist and associate chief of minimally invasive surgery at Northwest Hospital. **1975:** Kenneth V. Iserson of Tucson, Ariz., retired from the University of Arizona after 27 years. In retirement he is working on his latest book *Improvised Medicine*, expected to be published in 2009. Iserson will be traveling to Peru in November to teach and perform clinical work, and he also plans to be in Kenya in early 2009. **Thomas F. Krajewski** of Towson, Md., is director of integrated medical services for Integra Health Management. **Jeffrey** and **Sandra Quartner** of Pikesville, Md., report that daughter Jennifer, '06 will begin a cardiology fellowship next July at Maryland, following completion of her residency. **Michael B. Stewart** of Seattle is president of Northwest Pharma Consulting. **Lloyd M. Van Lunen Jr.**, of Brunswick, Maine, is working three days

each week and sails his 40' boat as much as possible. **1976: Bruce A. Silver** of Dunkirk, Md., has been serving as a freelance consultant for early clinical drug development since retiring from practice in 2001. He continues running and does an occasional marathon. **Arno Zaritsky** of Norfolk, Va., is senior vice president for clinical affairs at the Children's Hospital of The King's Daughters. **1977: Anne C. Goldberg** of St. Louis recently completed a year as president of the National Lipid Association. She reports that it was a valuable experience both professionally and personally. **Beverli S. Goldberg** of Catonsville, Md., although partially retired, was certified by the American College of Sports Medicine as a personal trainer. **Richard B. Silver** of Tampa, Fla., was certified in perioperative transesophageal echocardiography by the National Board of Echocardiography. **1978: Stuart L. Jacobs** of Severna Park, Md., reports that son Evan is working for McKinsey & Associates in New York City after graduating from Harvard, and daughter Rachel is attending Towson University after graduating from Anne Arundel Community College. **Elizabeth M. Kingsley** and **Stephen A. Valenti** of Annapolis, Md., congratulate daughter **Elizabeth**, '08, on beginning her internal medicine internship at Maryland after her May graduation. They enjoyed the 30th reunion in May and look forward to the 35th. **Bruce E. Weneck** of Hagerstown,

Md., proudly reports that daughter Margot Elizabeth has entered master's in nursing program at Thomas Jefferson University in Philadelphia, following her 2006 graduation from College of Charleston. **1979: Bernie Kozlovsky** of Baltimore is medical officer for the Health Resources and Services Administration Division of Transplantation in Rockville. His daughter is a nurse in the cardio-thoracic critical care unit at Mount Sinai Hospital in New York, and his son is starting the St. John's University Physician's Assistant program in Queens. **Marcy C. McKay** of Huntsville, Tex., is working locums in semi-retirement. **Peter Rork** of Jackson, Wyo., hopes to retire from orthopaedic surgery in 2010 when his youngest graduates from high school. In retirement he plans to resume his aviation career that was started prior to medical school. **Perri Laverson Wittgrove** of San Diego reports that daughter Carli is attending Vanderbilt University after graduating from high school in spring.

1980: Richard M. Galitz of Aventura, Fla., sends his best wishes to classmates, and he encourages everyone to visit aventuraplasticsurgery.com. **Larry Kaplan** of Lake Mary, Fla., is assistant professor of emergency medicine at the University of Central Florida School of Medicine. **Michael R. Kessler** of Denver announces that daughter Laura graduated summa cum laude from Savan-

nah College of Art and Design. **Margaret E. McCahill** of Jamul, Calif., received the 2008 Physician Humanitarian Award from the Medical Board of California for service to indigent patients and for training healthcare professionals in medically underserved settings. She enjoys spending time with her six-year-old grandson Connor and three-year-old triplets Colin, Emma, and Tara. **Kenneth Silver** of Pikesville Md., was recently promoted to vice chairman, department of physical medicine and rehabilitation at Johns Hopkins. Ken's wife Jocelyne received her PhD in French studies from College Park a few years ago. His daughter Jessica works in Brooklyn, NY, and his son Jeremy just graduated from The American University in D.C., and will be applying to medical schools this fall. **1981: Carl Sperling** of Baltimore reports that son Scott is a first year medical student at Maryland. Sperling practices internal medicine at Good Samaritan and Union Memorial hospitals. **1982: Darryl B. Kurland** of Princeton, N.J., reports that son Jason is a senior resident in internal medicine at Brown University and will remain there for a nephrology fellowship. Son Brian is relaxing after graduating with honors from Northeastern University. **Laura L. Stephenson** of Boalsburg Pa., continues practicing OB/GYN full time in State College. Daughter Rachel graduated from Juniata College and her son is attending Lock Haven University. Together she and husband Joseph operate

The Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Medicine Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

a B&B and a perennial nursery. **1983:** **Blaise Chromiak** and wife Marjorie of Mobile, Ala., celebrated their 25th wedding anniversary by taking a cruise to Italy and the Greek Isles. **Mark Regan** of Lancaster, Pa., enjoyed seeing classmates at the May reunion. Wife Therese is working on her masters in nutritional science; daughter Mary is in graduate school after graduating from the University of Pennsylvania School of Nursing; son Matt is starting medical school after earning a chemistry degree from the University of Pittsburgh; daughter Bridgid is a junior at the University of Pittsburgh majoring in exercise physiology; and daughter Claire is a freshman at the University of Maryland. **Milton S. Sniadach Jr.** and his daughter of Englewood Colo., became Nitrox certified for their recent scuba vacation in Key Largo, Fla. They report catching four lobsters. **Jim Spiegel** and wife **Sharon Tapper**, '84 of Stone Valley, Calif., recently enjoyed a two-week vacation in Europe. **1984: Martin L. Schwartz** of Irondale, Ala., is chairman of radiology at St. Vincent's Birmingham. All three sons are in college and wife Elba is doing great! **1985: Joanne L. Kinney** of Damascus, Md., reports that son Evan has joined daughter Mary at the University of Maryland College Park. **1986: Lisa A. Scheinin** of Redondo Beach, Calif., took roller coaster rides in North Korea, China, Russia, Peru, Japan, and Vietnam during the last year. She also earned a silver medal in her division of a Hanmadang competition—a Tae Kwon Do world-level event. **Julia Ann Williams** of Sedona, Ariz., continues to train and breed Golden Retrievers as service animals. She traveled to Honduras in June as a medical missionary, and is a ceramist and instructor at the Sedona Arts Center. **1989: Adam F. Dorin** of San Diego reports that his book *Jihad and American Medicine-Thinking Like a Terrorist to Anticipate Attacks Via Our Health System* has proven to be prophetic, receiving rave reviews in *Anesthesiology News* and the *Journal of the American Medical Association*.

1990: Margaret Flowers and husband **Brian**, '86 of Sparks, Md., hosted a fund-raising event at their home in August in support of Physicians for a National Health Program. Margaret is in her final year as a director on the Medical Alumni Board of Directors. **1993: Barbara Hutchinson** of Bowie, Md., continues to enjoy her cardiology private practice in Annapolis. **1994: Kourosh Baghelai** of Saint Joseph, Mich., proudly reports the birth of daughter Sophie, his second, on November 15, 2007. **Amy S. Church** and husband Rob are enjoying their small farm in Stockton, N.J., with two children, Erin age two, and Ryan, age one, along with two horses, three dogs, and a cat. Church works full time at Robert Wood Johnson Medical School. **Louis Malinow** of Owings Mills, Md., is a diplomate of the American Board of Clinical Lipidology. He is also certified by the American Society of Hypertension as a specialist in the diagnosis and treatment of high blood pressure, making him the only physician in Maryland with this dual specialty. Malinow plans to open the Lakeview Hypertension and Lipid Disorders Center where he will see patients for more aggressive management of hypertension and hypercholesterolemia. **1995: Kevin Dooley** of Saratoga Springs, N.Y., reports that daughter Meaghan is a senior at the University of Tulsa and is a member of the crew team. Son Garvey is in college and hopes to be a surgeon one day. Dooley reminds classmates that their home is always open to visitors. **Edward McDaniel** and wife Brenda are stationed at Fort Sam Houston, Tex. Son Michael is in the second grade, while son Justin is a sophomore at Austin Peay University in Clarksville, Tenn. **1996: Steven Komjathy** is medical director for PRA International Clinical Pharmacology in Lenexa, Kans. **Lisa Miller** of Waynesboro Pa., reports that she and **Vicki Ellis** are back together again working at Waynesboro Hospital in OB/GYN and emergency medicine, respectively. **1997: Carol Swanson** and **John Cox**, '98, of Tampa, Fla., welcomed their third child, Steven, this past February. **1998: Herlene Chatha**, husband **Kevin Reed**

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and daughter Simrin, of Kensington Md., visited with **Greg Cohen** and his family during a recent trip to the nation's capitol. **Elizabeth Feldman** and husband David of Washington, D.C., proudly announce the arrival of Nathaniel, their first. Feldman is a surgeon at Georgetown University. **Karen R. Raksis** and husband Rob have returned to Maryland and are currently living in Columbia. She works at Kaiser Permanente in Silver Spring. **1999: Eric K. Johnson** of Evans, Ga., recently returned to wife Amy and three daughters after a third tour of duty in Iraq as an army surgeon. **Ursina R. Teitelbaum** and husband Benjamin of Ardmore, Pa., proudly welcomed son Asher in November 2007. He joined Lillie, age four, and Sam, age two. **Mallory Williams** is assistant professor of surgery and

associate director of trauma at Louisiana State University Health Science Center in Shreveport after earning an MPH in health policy and management from Harvard University. **Shahid A. Zaidi** was recently transferred from the Florida gulf coast to an U.S. Air Force Base in Eagle River, Alaska.

2001: **Darren Feldman** of New York City is now an assistant attending in the division of GU oncology in the department of medicine at Memorial Sloan-Kettering Cancer Center. **Eric Klineberg** is an assistant professor of spine surgery at UC Davis in Sacramento where he lives with wife Joy and their three children. **Teresa Kulie** of Madison, Wis., sadly reports that her dog Moses died this past year. Despite the passing, Kulie is doing well. **2002:** **Eve Fields** and husband Michael of Vienna, Va., announce the birth of Theodore, their second son, on February 24. **Matthew Keyser** of North Las Vegas, Nev., married Beth Lisenbee on May 24th. **Brett Levinson** and wife of Baltimore announce the birth of Ruby Gabrielle on February 3. Levinson is in private practice with Baltimore Eye Physicians in Towson where he specializes in diseases of the external eye, including severe dry eye, LASIK Surgery, corneal transplants, and hard-to-fit contact lenses. **Matthew Smith** and wife Shelley of Richmond, Va., announce the birth of London, their first son. **2003:** **Todd W. Flannery** and wife Jacqueline of Pennington, N.J., proudly announce the birth of son Quinn Joseph on July 3. **Rachel Hartman** and husband Isamu of Dallas celebrated the birth of a son who joins their one year-old daughter. **Mohammed Manasawala** of Brighton, Mass., is serving a neuroradiology fellowship at Brigham and Women's Hospital in Boston. **2004:** **Michael Perraut** and wife Wendy of Newark, Del., proudly announce the birth of Courtney Erin, their second daughter, on January 21. **Kristina Suson** and husband Boch of Baltimore welcomed Sage Maione, their first, on January 5. **2005:** **Julia K. Deanehan Lilley** of Jamaica Plain Mass., and husband Brendan Lilley welcomed their son Colin Neil Lilley on March 1st, 2008. After finishing pediatric residency Kate now works as a hospitalist at Boston Children's. **Nicole S. Gable** of Baltimore works with Pavilion Pediatrics at Greenspring Station. She and husband Chris were married in September 2007. **2006:** **Pamela Winterberg** of Portland, Ore., will begin a pediatric nephrology fellowship at the University of Texas Southwestern in Dallas beginning in July 2009. **2007:** **Adriana Jones** and **Benjamin Laser** of Baltimore were married September 14 in Westchester, N.Y. 🏡

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Remembered

Sheldon Greisman, MD

For 32 years Dr. Sheldon Edward Greisman taught, inspired and befriended students, house-staff and faculty at our school as one of the university's

most gifted academicians.

A native of New York, he graduated from the New York University Medical College in 1949, finishing third in his class at the tender age of 21. He completed his internship and residency at the 3rd NYU division of Bellevue Hospital in Manhattan during which time he produced the first of 52 papers. These were to become classics among studies of bacterial pathogenesis.

In 1952, "Shelly" volunteered for service in the army. Following basic training at the Brooke Army Hospital at Fort Sam Houston in San Antonio, he was assigned to Japan as a ward officer in the neuropsychiatric service. Fortunately for science and the University of Maryland, a chance encounter with an enlightened and influential colonel resulted in his transfer to the 48th MASH unit in Korea to do research on small capillary blood vessels in soldiers with Korean hemorrhagic fever. It was shortly thereafter that he met the late **Theodore E. Woodward, '38**, who offered him a position in the department of medicine at the University of Maryland School of Medicine as the department's first full-time basic science investigator.

In Greisman's 32 years at Maryland, he established himself as one of the most accomplished scientists ever to have walked the halls of Maryland. Many former students remember him as one of the institution's most beloved teachers and role models. His studies, which focused on mechanisms by which bacterial toxins are involved in infectious diseases, set the standard for endotoxin research throughout the world for nearly three decades. In recog-



nition of these accomplishments, he was elected to the American Society of Clinical Investigation, the Association of American Physicians, the Clinical and Climatological Association, the Inter-Urban Clinical Club, the Baltimore Monthly Medical Reunion, and the International Endotoxin Society (lifetime honorary member).

At the age of 56, Greisman reluctantly stepped down as professor of medicine due to one of many depressive episodes that would plague him in retirement. The medical school recognized Greisman's contributions in

1990 by placing his name on an annual award presented to the outstanding physiology student. And on December 7, 2007, colleagues from around the world honored him further with a day-long symposium, entitled "Building a Foundation of Modern Sepsis Research: A Tribute to the Work of Dr. Sheldon E. Greisman."

Greisman was as warm, kind, and generous as he was brilliant. He enjoyed playing hit songs from the 1920s, 1930s and 1940s on a Martin acoustic guitar given to him by his parents when he was 13. He also played light classics on the violin and took great pleasure in entertaining his grandchildren and friends as an amateur magician. Throughout his long retirement he worked on a myriad of projects on the family farm, and assisted with building and with buying adjoining properties to create a family compound to accommodate all of his five children and 12 grandchildren.

Greisman died of chronic lymphocytic leukemia complicated by pneumonia on July 19. He is survived by his wife of 51 years, Janet Matthias, five children, Gregory, Kathy, Valerie, Timothy and Lisa, and twelve grandchildren. His passing has left a great emptiness in the hearts of the many who knew him, admired him and delighted in his company. 🏠

By Philip A. Mackowiak, '70

Manuel Stapen, '37
Boca Raton, Fla.
May 25, 2007

Benjamin H. Inloes Jr. '40
Williamsburg, Va.
June 3, 2008

The University of Maryland was the site of Dr. Inloes OB/GYN training upon completion of medical school. During World War II, he joined the U.S. Navy and was assigned to the Marine Corp. as a battalion surgeon in the Pacific Theatre of Operations. After the war, Inloes had a brief stint in private practice before joining the U.S. Air Force during the Korean Conflict. From 1954 until 1977, he was in private practice in Hampton-Newport News, Va., and from 1978 until retirement in 1982, Inloes worked with the U.S. Army at Ft. Eustis, Va., in a civil service position. In retirement he enjoyed golf, recreation activities at Kingsmill-on-the James, and travel. Inloes was a member of the medical school's John Beale Davidge Alliance, the honor society for major donors. He is survived by his third wife Ruth, three children and three grandchildren.

Ydalia Ortiz, '41
San Juan, P.R.
August 31, 2008

Dr. Ortiz received training at Children's Memorial Hospital, the Mayo Clinic, and Johns Hopkins. She practiced pediatrics and child psychiatry in Puerto Rico for many years and is survived by two daughters and one granddaughter.

Robert A. Barthel Jr., '42
Forest Hill, Md.
June 23, 2008

Dr. Barthel interned at Maryland and from 1943 to 1946 was assigned to active duty in the U.S. Navy. Assignments in the Western Pacific included the Philippines. He returned to Maryland after military service, opening a private family practice in Harford County. Barthel retired in 1987 and then again in 1991, delivering more than 1,500 babies during his career. He served as president of the Harford County Medical

Society for three consecutive terms during the 1950s, and he was physician to the Baltimore Fresh Air Camp for more than 25 years until its closure. He and wife Mary had four children.

Joseph Wallace Jr., '42
Dover, Pa.
February 11, 2008

After interning at Abington Memorial Hospital in Pennsylvania, Dr. Wallace received residency training in otolaryngology at the University of Pennsylvania in Philadelphia. He practiced in Lansdowne from 1945 until retirement in 1991 and was on the staff at both Delaware County Memorial Hospital and the University of Pennsylvania where he served as an instructor in head and neck anatomy at the graduate school of medicine. In 1968, he served as a volunteer physician in the ENT department of Wanless Hospital at Miraj Medical Center in Miraj, India. He enjoyed playing piano and organ, and he was a member of the American Philatelic Society. Wallace was preceded in death by wife Virginia and is survived by three sons, five grandchildren, and six great grandchildren.

Paul G. Lukats, '43M
Norton, Ohio
September 14, 2007

Dr. Lukats interned at South Baltimore General Hospital and received residency training in general surgery at Lutheran Hospital in Cleveland. He practiced in Cuyahoga Falls for 47 years before retiring in 1985.

John M. Bloxom, '44
Salisbury, Md.
August 5, 2008

After serving as a medical officer in the U.S. Navy, Dr. Bloxom completed residency training in surgery at South Baltimore General Hospital. He served as chief of general surgery at Peninsula General Hospital in Salisbury where he also held numerous staff offices. Bloxom was a past president of the Wicomico County Medical Society. He retired from practice in 1985 and enjoyed boating, fishing, and traveling, and

he spent several months each year living in West Palm Beach, Fla. He was preceded in death by wives Francis and Catherine, and he is survived by two children and five grandchildren.

Stuart C. Levine, '44
Baltimore
March 13, 2008

Dr. Levine practiced radiology in Baltimore for 47 years and retired in 1996. He enjoyed reading. He is survived by wife Mary Ellen, two daughters, three grandchildren, and one great-grandson.

James J. Gerlach, '46
Baldwin, Md.
July 10, 2008

Upon graduation, Dr. Gerlach served a rotating internship and residency in otolaryngology at Mercy Hospital before joining the U.S. Army. He spent the next 33 months in a number of military assignments including chief of ENT at the Pentagon Dispensary, assistant chief of ENT at Tripler General Hospital in Honolulu, chief of the station hospital Rabaul, New Britain, and chief of EENT at the Army hospital in Ft. Jackson, S.C. After receiving his discharge, Gerlach completed training at the University of Pennsylvania and returned to Baltimore where he practiced otolaryngology and, after 1957, limited his practice to otology. He was a collector of early American furniture. Gerlach is survived by wife Elaine, two sons, two daughters, and four grandchildren.

J. Poulson Hunter, '46
Salt Lake City
June 27, 2008

Dr. Hunter completed residency training at the University Hospitals in Iowa City, Iowa, before serving two years with the U.S. Army Medical Corps., in Ogden, Utah. He opened a family medicine private practice in Salt Lake City in 1949 which continued for 51 years. Hunter also practiced OB and general surgery until 1979, and he was a member of the staffs of LDS Hospital and Primary Children's Hospital, where in 1965

in memoriam

he served as president. For eight years he taught students and residents at the University of Utah School of Medicine. He enjoyed photography, travel, gardening, and watching movies. Hunter is survived by wife Marjorie, nine children, 37 grandchildren, and 29 great-grandchildren.

Milton Reisch, '46
Yonkers, N.Y.
September 15, 2008

University of Maryland was the site of Dr. Reisch's internship. Residency training was served at Brooke General Hospital in San Antonio, Tex., Bronx Veterans Hospital in Bronx, N.Y., and Cornell University Hospital in New York City. He practiced dermatology for 59 years, retiring in 2005. Appointments included clinical professor of medicine dermatology at Albert Einstein College of Medicine, and chair of adverse drug reactions at Montefiore Medical Center. Reisch enjoyed photography, wood carving, sketching, and travel. He is survived by wife Rashi, one son, one daughter, two grandchildren and one great-grandchild.

Joseph F. LiPira, '47
Baltimore
July 30, 2008

Dr. LiPira contracted spinal meningitis while in medical school. During the illness he met his future wife Ellen, who was a nurse at University Hospital. Upon graduation, he interned and performed residency training at Mercy Hospital. LiPira went to work as a physician at Bethlehem Steel, but after one year he joined the U.S. Air Force and was stationed in Sacramento, Calif. He returned to Maryland one year later and resumed his work at Bethlehem Steel. In 1958, LiPira opened a private family practice where he worked until retirement in 1978. He continued seeing his older patients for several more years. LiPira enjoyed the horse races, politics, attending Baltimore Colts games, and visiting the Eastern shore. Survivors include his wife, five sons, five daughters, and 27 grandchildren.

William F. Schnitzker, '47
Ashland, Ky.
February 17, 2008

At age six, a young Dr. Schnitzker began playing the violin and prior to medical school graduated from the Peabody Music School. In 1939, he joined the Fort Meade Civilian Military Training Camp and coast artillery at Fort Monroe. At Fort Monroe, Schnitzker passed in review to President Franklin D. Roosevelt. In 1941, while attending Transylvania University, he enlisted in the U.S. Navy and was mobilized in July 1943 to the University of Louisville to finish premedical school classes. Upon graduation from Maryland, he trained in pediatrics at the University of Louisville and Children's Hospital in Louisville. He then joined the U.S. Army as a pediatric resident and during the Korean conflict served at Fort Knox, Ky., where he began a pediatric clinic. He completed training at Walter Reed Army Hospital in Washington, D.C., and in 1957 opened a private practice in Ashland. While in practice he served on the faculty at the University of Louisville and University of Kentucky. He was widely published in journals including *JAMA* and the *Pediatric Journal*, as well as authoring two books. Schnitzker had a passion for travel and participated in Elderhostel, Earth Watch, and was an avid sailor. He retired from practice in 1989. He was preceded in death by wife Bettylee and is survived by three children, three grandchildren, and three great-grandchildren.

Alice G. Chelton, '48
Atlanta
August 29, 2007

Dr. Chelton practiced psychiatry in the Atlanta area. Her marriage to **L. Guy Chelton, '50** ended in divorce.

Kathleen McGrady, '51
Hendersonville, N.C.
April 9, 2008

Dr. McGrady was one of four women in the class of 1951 and married classmate

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Charles McGrady. She interned at Washington, D.C., General Hospital and received residency training in pediatrics at Maryland before moving to Florida for a few years where both practiced medicine. In 1971, they relocated to western North Carolina where McGrady operated a pediatrics practice assisted by her mother who served as the office nurse. She taught at Western Carolina University and with her husband acquired a Christmas tree farm. In 1989, after the death of her husband, McGrady relocated to Hendersonville and later established the Elizabeth House—named in honor of her mother—at Four Seasons Hospice and Palliative Care. Nine years later another tribute to her mother was established—the Elizabeth Reilly Breast Cancer Center at Pardee Hospital. Also in 2006, she dedicated the Charles W. McGrady Wing at the Elizabeth House. McGrady assisted in the founding of a family resource center, free clinic, community school, and served as volunteer for several other organizations. She was a member of the medical school's John Beale Davidge Alliance after establishing the McGrady Scholarship Fund to assist needy students. In 2007, McGrady was honored as the outstanding philanthropist by the Association of Fund Raising Professionals. She is survived by three children and six grandchildren.

Gilberto Ramirez-Santisteban, '52
New York City

Phillip G. Staggers, '55
Keyser, W.Va.
April 15, 2008

Upon graduation, Dr. Staggers served his residency at the San Diego Naval Hospital before traveling to Pensacola, Florida, for naval aviation medical school. He worked as a flight surgeon at the Marine air facility

In Santa Ana, California, for several years before returning to Keyser where he began his private practice of family medicine. He retired in 1991 after serving the community for more than 32 years. Staggers is survived by wife Mabel Jean, four daughters, and one grandson.

Sheldon Goldgeier, '58
Easton, Md.
June 29, 2008

Dr. Goldgeier interned at Baltimore's Sinai Hospital and received residency training in internal medicine there for one year before serving as a captain in the U.S. Army in Korea. Following military service, Goldgeier completed residency training as well as a fellowship in pulmonary medicine at Duke University and returned to Baltimore where he established a private practice. From 1966 until 1993, he was team physician for the Baltimore Orioles. Appointments also included chief of medicine at the Johns Hopkins North Charles/Homewood campus and president of the Maryland Society for Internal Medicine. Goldgeier retired in 2001 and moved to Easton where he taught medicine-related courses at the Institute for Adult Learning at Chesapeake College and at the Academy of Lifelong Learning at the Maritime Museum in St. Michaels. He enjoyed photography, painting, fishing, and bird watching, and he is survived by wife Myra, two children, and two grandchildren.

James D. Shepperd Jr., '58
Washington, D.C.
August 9, 2008

Upon graduation, Dr. Shepperd completed training in the Georgetown University program at D.C. General Hospital in Washington. He was detailed by the U.S. Air Force to the Misawa Air Base Hospital in Northern Japan where he served as chief of medicine for three years. After his military commitment, Shepperd returned for a fellowship in pulmonary medicine before joining the faculty at Howard University. He was executive director of the Upper Cardozo Neighborhood Health Center and later served as chairman of the depart-

ment of community medicine and public health. Shepperd was clinical director at the Johns Hopkins Medical Group and later received a master's degree in public health from Johns Hopkins. In 1976, he accepted a position with the World Health Organization in Bangkok, Thailand, as an education specialist with the Mahidol School of Public Health. He served in similar capacities in New Delhi, India, and later in the Ivory Coast and Jamaica with USAID. In retirement Shepperd continued his association with the Johns Hopkins Tropical Medicine Club and enjoyed sailing. He is survived by ex-wives Jewell and Billie, three sons including **Scott, '89**, two daughters, and eight grandchildren.

George N. Lewis III, '59
Bloomington, Ind.

John J. Bennett, '60
Morehead City, N.C.

Dr. Bennett practiced family and occupational medicine in Harrisburg, Pa., and later New Bern, N.C. He was preceded in death by wife Dixie in 2004.

Harry A. Spalt, '63
Martinsburg, WV
June 19 2008

Dr. Spalt practiced neurology in Baltimore and was on the staffs at Maryland General and Union Memorial hospitals. He later moved to Martinsburg, West Virginia, where he was a member of the Eastern Panhandle Medical Society. He had recently retired. Spalt is survived by two daughters, and his marriage to wife Mary Ann ended in divorce.

Robert C. Hazard, '64
Leesburg, Va.
February 8, 2007

Dr. Hazard trained at Providence and Children's hospitals in Washington, D.C. He was a practicing allergist in Rockville, Md., for 27 years before joining the FDA where he oversaw the medical ethics of clinical trials. Survivors include wife Ann, two children and two grandchildren.

Barry S. Gold, '74
Baltimore
June 30, 2008

Maryland General Hospital was the site of Dr. Gold's internship and residency training in internal medicine. Although he practiced internal medicine in Baltimore until retirement in 2005, his career path had been shaped by a snakebite as a Boy Scout, and Gold became an expert in the treatment of venomous bites. He served as consultant to Baltimore's National Aquarium, Maryland Zoo, and Cleveland Metroparks Zoo. A 2002 paper he co-authored on the subject was published in the *New England Journal of Medicine*. Gold joined the faculty at Maryland in 2005 where he practiced family medicine at the medical center and emergency medicine at the VA Hospital. Appointments included clinical assistant professor at Maryland and assistant professor of medicine at Johns Hopkins. He also held the post of medical director for Medicare for the State of Maryland and was a physician-advisor for several Hollywood movies. Gold maintained a pilot's license and enjoyed Formula One racing. He is survived by wife Linell and two children.

Faculty

Martha W. Burton, PhD
Timonium, Md.
August 21, 2008

Dr. Burton was an assistant professor in the department of neurology for the past 11 years. Born and raised in Cincinnati, she earned a bachelor's degree in language studies and Russian from Wellesley College in 1983. In 1986, Burton received a master's degree in linguistics from Brown University and a doctorate in cognitive and linguistic sciences three years later from this same institution. Her work focused on exploring the dynamics of language, how the brain processes and maintains spoken and written words and sentences, and how focal brain injury changes normal brain activity during language processing. Burton's work was published in several professional journals. She also sat on review panels for grants awarded by the NIH.

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134th Medical Alumni Association Reunion *May 1-3, 2009*

Friday, May 1

8:30–10:30 am	Open House, Check-in & Continental Breakfast
9:00–9:45 am	Financial, Retirement, & Estate Planning
10:00–11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am–1:15 pm	134th MAA Luncheon & Business Meeting, Westminster Hall
1:30–3:00 pm	15th Annual Historical Clinicopathological Conference
1:30–3:30 pm	Afternoon Check-in, Davidge Hall
3:30–4:30 pm	School of Medicine Tour
6:30–9:30 pm	The MAA Crab Feast, Baltimore Museum of Industry

Saturday, May 2

8:00 am–1:30 pm	Open House & Check-In
8:30–10:00 am	Continental Breakfast, Davidge Hall
9:00 am–1:00 pm	Excursion to U.S. Naval Academy, Annapolis, Md
10:00–11:00 am	Campus Walking Tour
11:00–11:45 am	Restoring Davidge Hall: An Update
11:30 am–2:00 pm	Complimentary Picnic, Davidge Hall
1:00–1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00–2:30 pm	Baltimore City Land & Sea Tour I
1:35 pm	Baltimore Orioles Baseball
Afternoon/Evening	Class Reunions (years ending in "4" and "9")

Sunday, May 3

10:00 am–1:00 pm
Brunch with the Dean,
The Reginald F. Lewis
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Winter 2008–2009 • Volume 93 • Number 3



*Stephen L. Liggett, M.D.
Cardiopulmonary Genomics Program*

Getting Personal About Medicine

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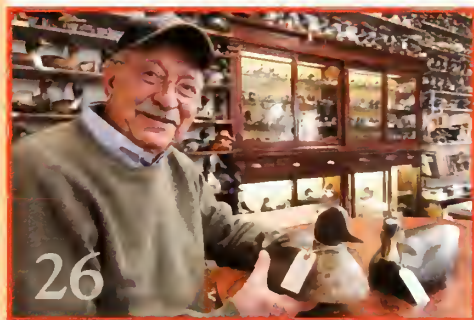
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features

Getting Personal about Medicine 8

The emergence of personalized medicine—the concept that information about a patient's gene expression profile can be used to tailor medical care to that individual's needs—is more than just a novel idea. While the research is in full swing at Maryland, personalized medicine is already incorporated into curriculum and is making its way into clinical practice.

On the cover: Stephen B. Liggett, MD

Photo by Richard Lippenholz

Divergent Pathways 14

Two late Maryland alumni actively involved in caring for world-class athletes would have celebrated milestone reunions this spring. George E. Bennett, class of 1909, is generally regarded as the father of modern sports medicine. The other, John B. Ziegler, class of 1949, is gaining notoriety as the father of the American anabolic steroids movement.

Alumnus Profile: Morton D. Kramer, '55 26

Kramer's Collection

One visit to Morton D. Kramer's house, and you get a sense for his passion: collecting. There are vintage cast iron toy banks, antique slot machines, Winchester rifles, and fire crackers. But the prized possession of this retired neurologist is a priceless assortment of hand-carved wooden duck and goose decoys.

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In 2003, the completion of the sequencing of the human genome provided crucial insights into the biological workings behind countless medical conditions. Since then, scientists and physicians have sought to integrate newly emerging genetic and genomic information into clinical practice.

Tailoring therapies for specific diseases is known as personalized medicine, seeking to use each person's unique clinical, genetic, genomic, and environmental information to develop individualized approaches to the diagnosis and treatment of illness and promotion of wellness.

Unfortunately, personalized medicine is a new, rapidly evolving field of healthcare and is not yet in widespread clinical practice because of the slow pace of translating research findings into practical treatments and approaches. The University of Maryland School of Medicine is committed to accelerating the development of this field and to becoming a leading center for the delivery of personalized medicine within the next decade.


Our program in genetics and genomic medicine is dedicated to speeding up the pace of discovery in genetics and genomics and translating these new discoveries into more personalized patient care. **Alan R. Shuldiner, MD**, professor of medicine, who heads this program, has major research interests in the molecular basis and genetics of type-2 diabetes, obesity, and insulin resistance with the goal of better targeting prevention and therapeutic approaches for these conditions.

This past year we founded the University of Maryland Institute for Genome Sciences (UMIGS) to serve as a major resource for medical school faculty. UMIGS, which will be profiled in a future edition of the *Bulletin*, has already established collaborations with faculty throughout the school, many of whom are studying how naturally occurring genetic variations affect not only the origin and course of diseases but also affect patient responses to treatment approaches and drugs.

This issue of the *Bulletin* describes the groundbreaking work of one of the early pioneers of personalized medicine, **Stephen Liggett, MD**, professor of medicine and physiology and director of our cardiopulmonary genomics program. Dr. Liggett's studies have demonstrated that naturally occurring genetic variations, called single nucleotide polymorphisms, contribute to the onset and course of heart disease and asthma as well as patients' response to therapy. Such findings may soon revolutionize the approach for managing those conditions.

His laboratory recently demonstrated, for example, that a genetic variation found predominantly in African Americans, protects some people with heart failure, enabling them to live longer than expected. Furthermore, this genetic variation acts similarly to beta-blockers, a class of drugs commonly used to treat chronic heart failure. Individuals with this genetic variation, therefore, do not receive any additional benefit from taking beta blockers.

Thus, Dr. Liggett's work is demonstrating that personalized medicine has the potential not only for delivering better-directed health care but also for lowering cost to patients; since it will allow them to receive the most effective therapy available for their condition at the earliest possible time.

In the near future we anticipate being able to choose the best treatments for each of our patients based on the results of sophisticated molecular tests. However, in order for personalized medicine to become a reality, basic science findings about the subtle individual differences between patients must be rapidly translated into precise diagnostic tests and highly targeted therapies. At the University of Maryland School of Medicine this process has already begun. We plan to become a leader in the field in the next decade. 



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
University of Maryland
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Professor and Dean, School of Medicine

*... in order for personalized medicine to become a reality,
basic science findings about the subtle individual differences
between patients must be rapidly translated into precise
diagnostic tests and highly targeted therapies.*

EVENTS Pediatrics Department Turns 60

The department of pediatrics celebrated its 60th anniversary October 24, 2008 with a day of learning and reminiscing.

Maryland governor Martin O'Malley, Baltimore mayor Sheila Dixon, the Maryland House of Representatives and the Maryland Senate all sent proclamations offering their congratulations, presented during a luncheon for past and present department faculty and residents. Lunch was followed by the **Abraham H. Finkelstein, MD, Lecture** and the **Ruth W. Baldwin, MD, Lecture**—both named for faculty of the medical school—as well as other continuing education opportunities and tours of the department. A gala dinner for more than 200 capped off the celebration.

A book commemorating the 60th anniversary was released during the festivities entitled *Love, Concern and Excellence*. The publication was assembled by a committee of department faculty and staff and included **Misbah Khan, MD**, **Prasanna Nair, MD**, **Alice Heisler, '63**, and **Gail Olson, RN, PhD**.

As his department celebrated the past, chairman **Steven J. Czinn, MD**, is looking toward the future. "Our first 60 years have been incredible and have given us a great platform to move in the direction we want to move in," he said. "We are ranked 23rd out of 100 departments of pediatrics nationally, and we're definitely looking to move into the top 20—and hopefully even the top 10—within the next five years."



Taylor Captures Both Alumni Honors

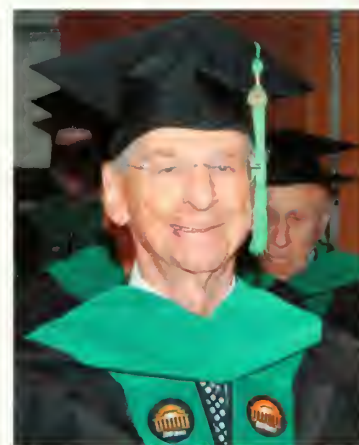
The Medical Alumni Association announced recently that **Irving J. Taylor, '43M**, will be recipient of its two annual alumni awards—the Honor Award & Gold Key and Distinguished Service Award—in 2009.

Established in 1948 for outstanding contributions to medicine and distinguished service to mankind, the Honor Award & Gold Key is being presented to Taylor for his lifetime contributions in the field of psychiatry. Taylor owned and served as medical director for Taylor Manor Hospital in Ellicott City, Md., a small, 12-bed psychiatric facility he purchased with the help of his father in 1939. Over the next 50 years, he developed the institution into one of the county's leading private psychiatric hospitals with 204 beds and 500 employees. Taylor became a recognized expert and leader in the emerging field of biological psychiatry. He was instrumental in the initial clinical testing of a new class of anti-psychotic drugs—the phenothiazines—as well as refinement of more modern ECT techniques. Taylor Manor established the country's first dedicated adolescent unit (separate from the adult units), and similar specialized programs were created for the clergy and pathological gamblers, as well as innovative treatments for alcoholism, substance abuse, and depressed geriatric patients. In 1968, Taylor created an annual symposium that attracted national and international experts to present the latest data in wide-ranging aspects of psychiatry. These symposia were presented in a book that

Taylor later co-authored. Taylor Manor merged in 2002 with Sheppard Pratt Health System.

The Distinguished Service Award, established in 1986 for outstanding contributions to the Medical Alumni Association and School of Medicine, will also be presented to Taylor for his steadfast support for the medical school. During the 1990s, before students were required to have laptop computers, Taylor recognized their lack of access to informatics technology and funded a computer learning center in the medical school. In 2003, he established an endowed resident prize in the department of psychiatry. In May 2006, he funded renovation of the freshman lecture hall in the Bressler Building which now bears his name. And in 2008, he accepted a decanal appointment to the medical school's capital campaign committee.

In the school's history, three alumni (**Theodore E. Woodward, '38**, **George H. Yeager, '29**, and **John M. Dennis, '45**) have received both awards. However Taylor becomes the first to garner both in the same year. Taylor will receive the awards during the 134th Medical Alumni Association reunion in May.



EVENTS Gaspari Treeman Suffers from Human Papillomavirus

A Discovery Health cable documentary about an Indonesian fisherman known as the Treeman thrust **Anthony Gaspari, MD**, chairman of Maryland's department of dermatology, into the international spotlight late last year. The man's skin was covered with lesions resembling tree bark, and roots seemed to be growing from his hands and feet.

Gaspari flew twice to the patient's rural village in an attempt to diagnose the illness. Early on he ruled out the possibility of a rare skin disorder. Growths sent back to Maryland for biopsy later indicated human papillomavirus (HPV) was the cause. Some HPV types cause common warts, and Gaspari determined that Treeman's appearance was the result of his body's inability to fight the virus due to low levels of CD4 cells. It was estimated that Treeman's ailment had gone 20 years without being treated. The shows were broadcast in Europe and America in January and October 2008.



Courtesy of Discovery Health

EVENTS Faculty, Alumni Gather at Four Meetings

The Medical Alumni Association and four departments jointly sponsored receptions throughout the country last fall. **Stephen T. Bartlett, MD**, chairman of the department of surgery, and former chairman **Joseph S. McLaughlin, '56**, co-hosted an event for 40 alumni and faculty in San Francisco on October 13. The reception ran in conjunction with the American College of Surgeons annual meeting. **Peter Rock, MD**, chairman of the department of anesthesiology, staged an event for 50 in Orlando on October 19 during the annual meeting of the American Society of Anesthesiology. Associate professor and acting chairman of the department of ophthalmology **Ramzi K. Hemady, MD**, entertained alumni and faculty on November 10 in Atlanta during the meeting of the American Academy of Ophthalmology. And more than 70 visited with **Reuben Mezrich, MD**, chairman of the department of diagnostic radiology & nuclear medicine in Chicago on December 1 during the annual meeting of the Radiological Society of North America.

Wilson Receives AAMC EVENTS Flexner Award



Dean Emeritus **Donald E. Wilson, MD, MACP**, was honored by the Association of American Medical Colleges last November as recipient of its Abraham Flexner Award for Distinguished Service to Medical Education. The award was established in 1958 to recognize extraordinary individual contributions to medical schools and to the medical education

community as a whole.

It was during Wilson's tenure when Maryland "underwent a veritable transformation to become a true educational and research powerhouse," according to AAMC president emeritus Jordan J. Cohen, MD. Wilson served as dean from 1991 to 2006 and is currently senior vice president for health sciences at Howard University.

Sharon Boston • Rebecca Ceraul • Ellen Beth Levitt • Larry Roberts • Bill Seiler • Karen Warmkessel • John Seebode • Mark Teske

Portrait of Early Dean Added to Collection

The Medical Alumni Association has added the portrait of **William Gibson, MD**, to its collection of medical artifacts on display in Davidge Hall.

Gibson joined Maryland in 1812—at the age of 23—as chairman of the department of surgery. He served as dean from 1818 to 1819 before departing for the University of Pennsylvania where he remained until 1855.

In 1812, Gibson became the first surgeon in the world to successfully ligate the common iliac artery. This proved to be the initial demonstration of the establishment of collateral circulation of the lower extremity after the ligation of a major artery. The native Baltimorean also had a knack for being in the right place at the right time. Gibson was an observer at the Battle of Waterloo and, during the War of 1812, extracted a musket ball from General Winfield Scott during the Battle of Lundy's Lane.

The artist is Laura Era who operates the Troika Gallery on Maryland's Eastern Shore. She is also credited with the paintings of medical school founder **John B. Davidge, MD**, and **Granville Pattison**, Maryland's sixth dean. There are now portraits of 15 Maryland deans on display in Davidge Hall, and the committee overseeing the collection plans to commission portraits of all 30. The Bowers Collection of The Medical Artifacts Endowment Fund is underwriting the project. 🏛️



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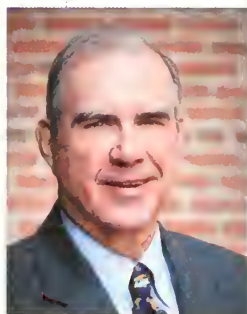
Retirements

Gary D. Plotnick, '66, has stepped down from one of his medical school posts. After graduation ceremonies last May, Plotnick announced that he would relinquish his responsibilities in the office of student affairs, where he has served as assistant dean since 1975.

The Baltimore native joined the faculty in 1974 as an assistant professor in the department of medicine following a cardiology fellowship at Johns Hopkins Hospital. Two years later he received the first of several teaching awards. He was made a full professor in 1989. Plotnick has been awarded the golden apple award—given by the graduating class to the best teacher—a record nine times. In fact, he is the only teacher to have won the award for both the clinical and basic science years. He received the Theodore E. Woodward Award for Excellence in Teaching by the Maryland chapter of the American College of Physicians as well as the University of Maryland Baltimore Founder's Day Teacher of the Year Award. In his teaching capacity, there is no discussion about retiring anytime soon.

In addition to wife **Leslie, '70**, Plotnick's daughter-in-law **Rachel** is a 2003 alumna, and son **Danny** graduated in 2006.

Raymond Jones, PhD, a member of the pathology faculty since 1974, retired last May. Jones received the department's first PhD in 1974 and joined the faculty shortly thereafter. Until the curriculum changes in 1994, he was the pathology course director and afterwards served as liaison to the second-year courses. During his years on the faculty, Jones also taught pathology courses to graduate students, was a member of the graduate program for life sciences faculty, and sat on 13 committees and subcommittees.




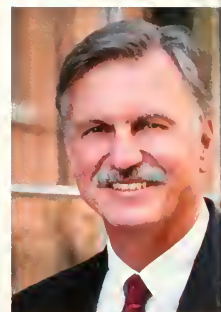
Jones' PhD thesis involved subcellular alterations of the human pancreas following shock and ischemia, and his studies with the pancreas progressed on to human pancreatic and lung cancers. He has been a member of a long-standing resource to the laboratory of human carcinogenesis of the National Cancer Institute for studies of human carcinogenesis and extrapolation of animal data to man. Jones became the principal investigator for this annual \$1.2 million contract when department chair **Benjamin Trump, MD**, retired in 1998.

In addition to continuing on as a member of Maryland's admissions committee which he joined in 1991, Jones sits on the animal policy committee for the National Aquarium in Baltimore. He has authored 80 journal articles, 22 book chapters, and eight books.

Appointment

Dennis J. Narango, MA, CFRE, was appointed associate dean for development and chief development officer of the medical school in October. He had served as acting associate dean since February. Narango joined the medical school in June of 2002 as assistant dean and helped lead the rapid growth of the development office for the successful \$200 million Bicentennial campaign. Prior to the medical school, he served a three-year stint at University of Maryland University College as director of development and acting vice president of institutional advancement. He also served previously as director of alumni and development at Loyola Blakefield.

Since 1992, Narango has held credentials as a Certified Fund Raising Executive, or CFRE, from the Association of Fundraising Professionals. He recently was re-elected to the board of directors of the AFP's Maryland Chapter and serves as chair of its mentoring committee. He has also served on the board of the Chesapeake Planned Giving Council. Narango's appointment as associate dean follows the January 2008 resignation of **Patrick Madden**. 



[Save the Date!]

Reede to Speak at Diversity Dinner

Dr. Robert M. Reede, MD, PhD, a nationally recognized leader in the field of HIV research, will be the featured speaker at the Diversity Dinner, which will be held on Wednesday, February 27, 2008, at the Phipps Conservatory and Botanical Gardens. The dinner is a celebration of the University of Maryland's commitment to diversity and inclusion. Dr. Reede is a professor of Medicine and Director of the Center for HIV Research at the University of Maryland. He is also a member of the National Academy of Sciences and the National Academy of Medicine. The dinner is open to all members of the University community and is a great opportunity to learn more about the University's commitment to diversity and inclusion.



Joyful Music and a Healthier Heart



Michael Miller, MD

Listening to your favorite music may be good for your cardiovascular system. Maryland researchers have shown for the first time that the emotions aroused by joyful music have a healthy effect on blood vessel function.

Music, selected by study participants because it made them feel good and brought them a sense of joy, caused tissue in the inner lining of blood vessels to dilate in order to increase blood flow. On the other hand, when study volunteers listened to music they perceived as stressful, their blood vessels narrowed, producing a potentially unhealthy response that reduces blood flow.

"We had previously demonstrated that positive emotions, such as laughter, were good for vascular health. So, a logical question was whether other emotions, such as those evoked by music, have a similar effect," says principal investigator **Michael Miller, MD**, director of preventive cardiology at the medical center and associate professor of medicine at the medical school. "We knew that individual people would react differently to different types of music; so in this study, we enabled participants to select music based upon their own likes and dislikes."

Ten healthy, non-smoking volunteers (70 percent male; average age 36 years) participated in all phases of the randomized study. There were four phases. In one, volunteers listened to music they selected that evoked joy. Another phase included listening to a type of music that the volunteers said made them feel anxious. In a third session, audio tapes to promote relaxation were played, and in a fourth, participants were shown videotapes designed to induce laughter.

Prior to each phase of the study, the volunteers fasted overnight and were given a baseline test to measure flow-mediated dilation. This test can be used to determine how the endothelium responds to a wide



Miller believes that a physiological reaction to the type of music is behind the formation of positive and negative blood vessel reaction.

range of stimuli, from exercise to emotions to medications.


Compared to baseline, the average upper-arm blood vessel diameter increased 26 percent after the joyful music phase, while listening to music that caused anxiety narrowed blood vessels by six percent. "I was impressed with the highly significant differences both before and after listening to joyful music as well as between joyful and anxious music," says Miller.

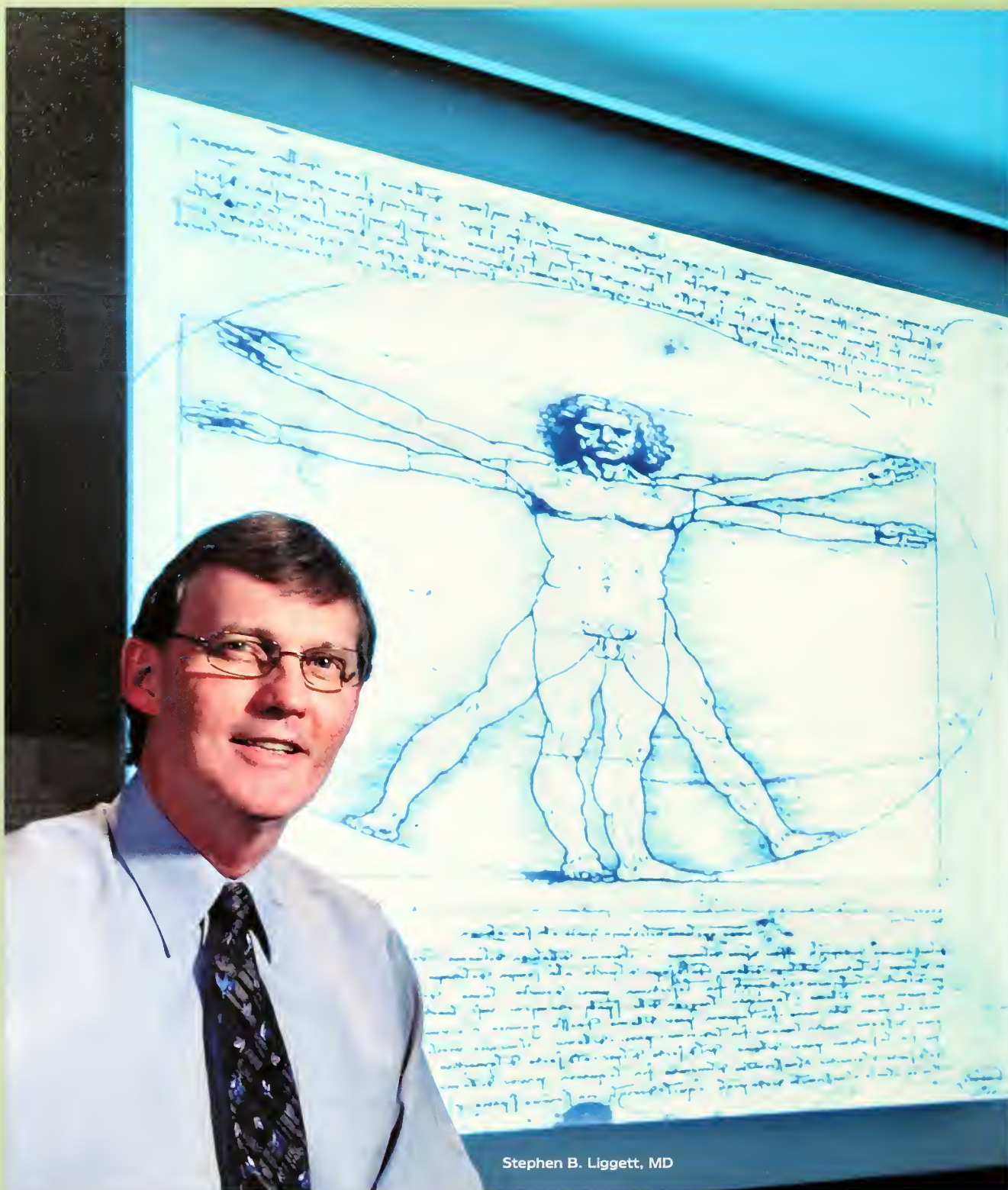
During the laughter phase of the study, a 19 percent increase in dilation showed a significant trend.

The relaxation phase increased dilation by 11 percent on average, a number that the investigators determined was not statistically significant.

Miller believes that a physiological reaction to the type of music is behind the formation of positive and negative blood vessel reaction. "We don't understand why somebody may be drawn to certain classical music, for example," he says. "There are no words in that, and yet the rhythm, the melody and harmony, may all play a role in the emotional and cardiovascular response."

Miller suggests that the emotional component may be an endorphin-mediated effect. "The active listening to music evokes such raw positive emotions likely in part due to the release of endorphins, part of that mind-heart connection that we yearn to learn so much more about. Needless to say, these results were music to my ears, because they signal another preventive strategy that we may incorporate in our daily lives to promote heart health."

The results of the study, conducted at the medical center, were presented at the scientific sessions of the American Heart Association on November 11, 2008, in New Orleans. Miller's funding sources include the American Heart Association, Veterans Administration and the National Institutes of Health. 



Stephen B. Liggett, MD

Photos by Richard Lippenholz

Getting Personal About Medicine

Even before the sequencing of the genome, 80-year-old smokers and 20-year-old heart attack victims were rationalized by friends and family who reasoned it's all in the genes. Turns out they were right! Today, scientists are probing just what it is in those genes that protects some from disease while placing others at risk. Personalized medicine, or pharmacogenomic medicine as it is called by leaders in the field, employs molecular analysis in the design of a new era in health care. Variations in genes are being discovered that predict a specific patient's response to therapy, while understanding how alterations in such variations function may signal pathways to treatment for all patients.

Such a transformation in the way medicine will be practiced in the not too distant future demands the finest talents available in the field of genomics, and the University of Maryland is no latecomer in assembling such talents. Claire Fraser-Liggett, PhD, professor of medicine, and the most frequently cited scientist worldwide in the field of microbiology, left a post as president and director of The Institute for Genomic Research (TIGR), to become head of the SOM's Institute for Genome Sciences.

"One of the most important challenges in the years ahead will be integrating new insights from the field of genomics into the clinical environment," Fraser-Liggett says. "There is no better place to be working toward that goal than in a large academic medical environment like this one."

She and the more than 60 scientists from her TIGR laboratory who have joined her at the institute are collaborating with colleagues in the department of medicine to translate genomic expertise to clinical care. Even more exciting perhaps is her work in a completely new development within personalized medicine, the field of human metagenomics. Still in the pioneer stages of information gathering, it has become a National Institutes of Health (NIH) initiative that some are calling the second human genome project.

Explaining that metagenomics is the study and function of the microbial community that inhabits the human body, Fraser-Liggett says, "From the moment of birth, we are colonized by micro organisms that are important in defining our immune system. We suspect that every exposure in life has an impact on this microbial community."

She cites, for example, a situation in which a course of antibiotics may lead to gastrointestinal effects because essential bacteria are destroyed by the antibiotic. "Studies show it can take 18 months or longer before the body returns to its normal condition," she says. "Everything we're exposed to has this impact—diet, illness, drug therapy, pollutants, alcohol, and a variety of toxic elements—and there can be important health consequences as a result."

Fraser-Liggett's interest is in the gastrointestinal tract and the shift in microbial communities associated with various diseases such as Crohn's Disease, ulcerative colitis, inflammatory bowel disease, and obesity. The first step is to pinpoint microbial differences in specific individuals so that therapies can be appropriately directed. Taking on this kind of pivotal role in a wholly new direction in research is no more than one might expect from a scientist who oversaw genome sequencing of important human pathogens, including bacterial infections that cause cholera and anthrax. Nor is it surprising that the first major grant supporting the metagenomic initiative in the U.S. has been awarded to Maryland's bioinformatic group.

The New York Times and newspapers across the country heralded the 2008 discoveries by Stephen B. Liggett, MD and colleagues of a gene variant that may prolong life for approximately 40 percent of African Americans suffering from heart failure.

Liggett, a professor of medicine and physiology, began his journey with pharmacogenomics as a medical student when it became clear to him that people who appear similar in all respects responded differently to the same drug. It took him 12 years to begin putting the pieces together, as he examined the DNA of patients with heart and lung disease for variations in the family of adrenergic receptor genes.

"I was told by my mentor not to bother, that these receptors were so fundamental to life that there would not be any variation among people," he remembers.

He wasn't about to be discouraged however. He continued to sequence thousands of patient DNA's over the next few years, searching for polymorphisms or variations in DNA among patients with congestive heart failure and asthma.

According to Liggett, the recent high-profile studies that dramatically justify his persistence in pharmacogenomic research generated considerable news coverage because people are interested in ways of getting the right drug to the right patient in ways that are better than the trial-and-error approach.

In one study, published in the *Proceedings of the National Academy of Sciences* in 2006, he demonstrated that a single letter in the genetic code of a receptor for beta-blockers defined who would respond to the life-saving drug and who would not. Of particular interest was that the beta-blocker used for the study, bucindolol, had been passed over by the pharmaceutical industry because it was felt to have only marginal benefit for the population as a whole. However, when the population was split into two groups, based on genetic variation, one group had a 38 percent improve-

ment in mortality. The FDA currently is in the process of examining a new drug application for bucindolol.

"The exciting part about this is that there probably are hundreds of compounds that have failed in trials because they were too toxic or ineffective but can now be used for specific patient populations," Liggett says.

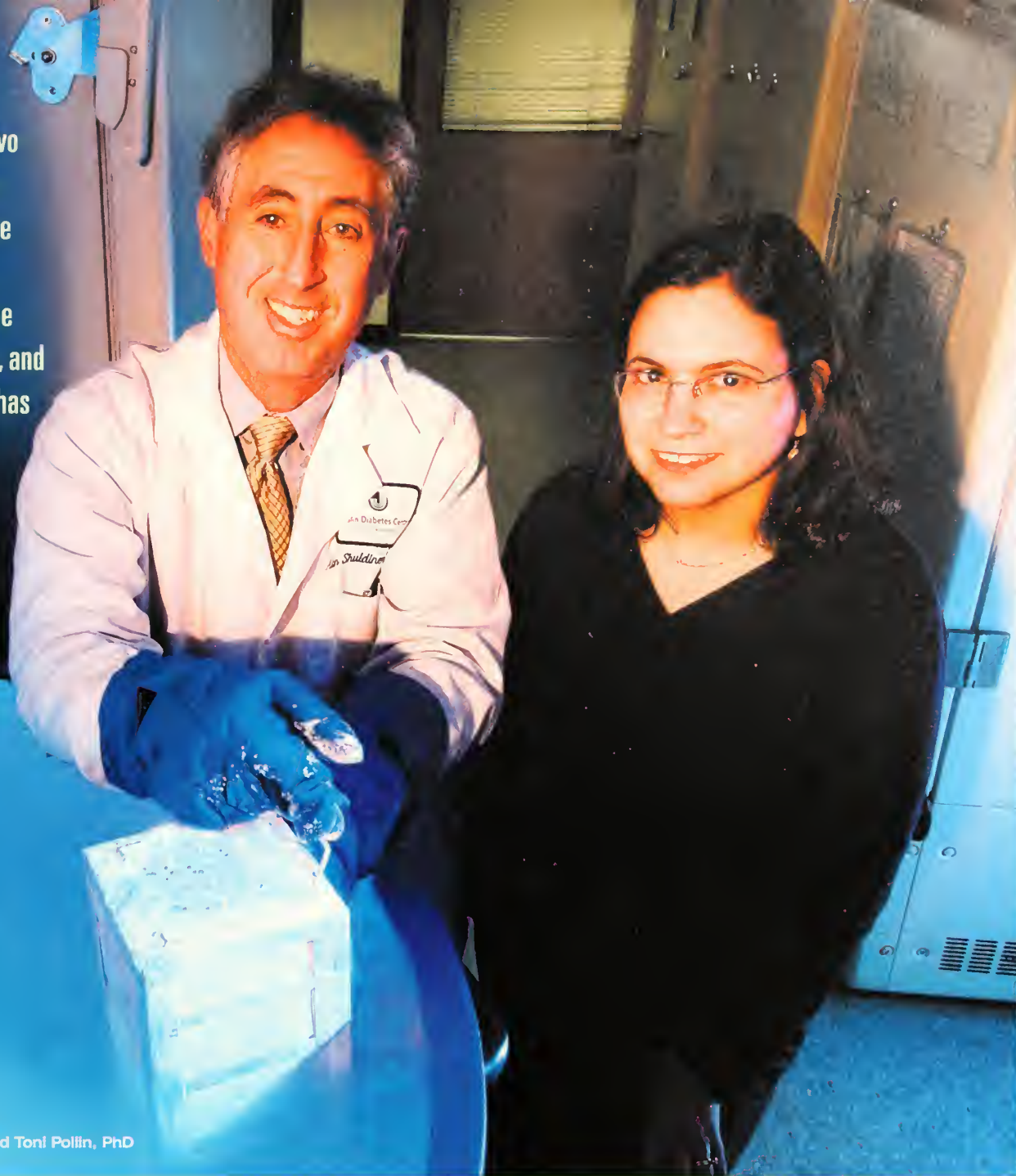
In another study published in *Nature Medicine* in 2008, he found that a gene called GRK5, which acts as a natural beta-blocker, has a variation almost exclusively in African Americans. They found the variant improved the function of GRK5.

"In fact, patients with this variant had the same survival without taking beta-blockers, as those with the common form of the gene who were taking beta-blockers," Liggett says.

He adds that the study emphasized several important concepts relative to the personalization of medicine. First, it confirmed that not all variants are harmful, some actually improve gene function. In addition, some variants mimic a drug. Therefore, pharmacogenomic tests may conclude that a patient need not take a specific drug because he or she already has the benefit of the drug's impact in the individual's genes. Another theme emerging is that some variants predominantly are in one racial group, such as the one in GRK5, which is found in 40 percent of African Americans and two percent of Caucasian Americans. The findings do not provide a basis for deciding which drug to prescribe based on skin color. They explain differences in the response to beta-blockers among African-Americans, but skin color is a poor surrogate for one's full genetic make-up, Liggett warns.

The group also routinely builds genetically engineered mice with the human genes and their variants. This allows for rapid testing of drugs to find those in which the variants have a heavy impact, as compared to those that can bypass the genetic influence. This work has contributed to an unexpected outcome of pharmacogenomics in that it

“Our team has identified two genes that are involved in cholesterol and triglyceride metabolism, including a mutation that occurs in one out of eight Amish people, and for which genetic testing has great promise to delay or prevent heart attacks and stroke,” Shuldiner says.



Alan R. Shuldiner, MD, and Toni Pollin, PhD

may lead to the discovery of new drugs. “It’s as if the body’s genome is trying to tell us something, and we need to listen carefully” Liggett says.

He reports he has begun to put together genetic scorecards, listing possible genetic variants, along with a patient’s own results. “We add up the results, and the patient gets a score, which tells the physician which drugs are most likely to provide benefit, which are most likely to provide little benefit, and which may cause a dangerous side-effect. Refining the scorecard will take much more research,” he says, “but the pieces are coming together.”

A Recent Discovery

Alan R. Shuldiner MD, began searching for susceptible genes for Type 2 diabetes among Amish families seven years before the news-breaking genome sequencing that was to change the course of medicine.

“The Amish are wonderful subjects for genetic studies,” says Shuldiner, professor and head of the division of endocrinology, diabetes and nutrition. “They compose a homogenous population that can trace its ancestry back hundreds of years, and they share a similar rural lifestyle, all of which enables our work.”

Those early studies and others among the Amish have led to important discoveries related to diabetes, obesity, osteoporosis and cardiovascular disease.

"Our team has identified two genes that are involved in cholesterol and triglyceride metabolism, including a mutation that occurs in one out of eight Amish people, and for which genetic testing has great promise to delay or prevent heart attacks and stroke," Shuldiner says. "Many of these findings can be translated to populations other than the Amish."

He adds that new studies, based on these original findings, are to be published soon in the *New England Journal of Medicine*, *Science*, and *The Proceedings of the National Academy of Science*.

In 2007, Shuldiner's group completed a genome-wide association study for Type 2 diabetes which identified several chromosomal regions that increase susceptibility for the disease. One of them GRB10 belongs to a family of adapter proteins that interacts with a number of receptors. The SOM researchers now are working with an international team honing in on other genes that influence diabetes and blood sugar levels.

Among the varied pharmacogenomic projects he is spearheading, Shuldiner is interested in understanding why some people respond well to aspirin in terms of heart attack prevention, while others do not. Again among the Amish, he heads a group that is part of a consortium, treating people with both aspirin and Plavix, then taking blood samples and searching the genome for response. So far, they have come across at least one gene that appears to be important in predicting the impact of Plavix.

Most recently, Toni Pollin PhD, assistant professor of medicine, and a member of the Amish research team, found that people with a specific mutation in a gene called **ApoC** have a favorable phenotype for low triglyceride levels. These people appear to be protected from cardiovascular disease. The potential significance of this work is that drug therapies may be developed to alter ApoC protein levels in other populations.

Meanwhile, as personalized medicine continues to soar with new implications for the practice of medicine, critics charge that the educational component may be absent from many programs. Not so at Maryland. David Mallott MD, associate dean of medical education, reports that personalized medicine is part of the curriculum. "It is intro-

duced during the first year of the Cellular and Molecular Biology class," he says. "The subject is continued in the second-year Pharmacology portion of Pathophysiology and Therapeutics, and throughout the remainder of the four-year curriculum."

Fraser-Liggett adds that educating the next generation of physicians about pharmacogenomics is an enormous challenge in that it demands turning away from a one-approach-fits-all mindset and replacing it with an understanding of the scientific underpinnings of personalized medicine and its impact on patients.

"It's an exciting challenge, to be sure," she says. "We're inserting a tremendous amount of new information into what is already an extraordinarily full curriculum. It's happening, here and now. But it's a challenge that demands taking a holistic and systems view of biology."

Sanford Stass, MD, professor and chair of the department of pathology, heads that department's clinical laboratories, and is involved in developing testing supporting personalized medicine. Currently, the clinical laboratory is interested in offering a test for an anticoagulant called warfarin. Genotyping is performed on individuals to determine if they are high, low or normal metabolizers of warfarin.



Fraser-Liggett adds that educating the next generation of physicians about pharmacogenomics is an enormous challenge in that it demands turning away from a one-approach-fits-all mindset and replacing it with an understanding of the scientific underpinnings of personalized medicine and its impact on patients.

"This is important because the blood of a person who is a low metabolizer of warfarin may be thinned too much by administration of the drug," Stass says. "Genome testing has been commercially developed with regard to other drugs, such as those used for psychiatric and cardiovascular disorders."

He adds that bringing together the research and clinical components is one of the biggest challenges facing pharmacogenomic medicine.

"We may know of genomic differences but relating that information to clinical applications, and defining what it means in terms of dosage are issues that will take time to work out. We need more clinical studies to change outcomes, and that takes time."

Facing Melanoma Head On

In an instance involving one of the deadliest forms of cancer, that transition from science to clinical care is now taking place on Maryland's campus. David Weber, PhD, professor of biochemistry and molecular biology, has taken on a formidable enemy in his melanoma research. Knowing that the protein S100B indicates a poor prognosis for melanoma patients, Weber began questioning whether it was just a marker or part of the problem itself. He learned that it broke the p53 protein apart, and since p53 is a major gatekeeper in regulating cell growth, he wanted to see what the interaction was inside the cell. Looking at primary malignant melanoma cells, he saw an elevation of S100B with a corresponding decrease in tumor suppression. When he lowered the S100B, he saw the tumor suppression of p53 return.

"Like all proteins, S100B has a normal function, in this case cell growth," Weber explains. "When calcium binds to S100B, the protein breaks p53 apart, leading to cell

growth. We needed to find a way to plug the site with a drug that would restore the normal tumor suppression that is lowered in the melanoma by S100B."

Enter the collaboration of Edward Sausville MD, professor of medicine and associate director of clinical research. Sausville's interest is in early phase oncology trials.


Weber and Sausville found several compounds suitable for patients with too much S100B and a p53 gene with no mutations. One of them, pentamidine, has been accepted for clinical trials. Weber says the drug isn't perfect, and his laboratory is looking for one that will bind more tightly, and will bind only to the S100B protein, thereby negating side effects. In the meantime, however, aggressive melanomas are being effectively treated, thanks to work by Weber and Sausville.

"Currently, there is only one chemotherapeutic drug available for melanoma, and it is not effective for advanced melanoma," Sausville says. "Dr. Weber discovered patients with a specific type of advanced melanoma, and we were fortunate that the National Cancer Institute (NCI) gave it a high priority."

He explains that trials are ongoing at Maryland, as well as in collaborating NCI designated centers with the ability to contribute to the trials, now in Phase 2. "I believe this discovery will have an impact on pharmacogenomic medicine across the board in that it underlines solutions based on a cancer's genotype," Sausville reports.

Clearly, there is a considerable amount of genomic research and personalized medicine initiatives on the medical school campus. Emphasis now is to pull all the programs together in a comprehensive initiative encompassing all patients.

Bruce Jarrell MD, vice dean for research and academic affairs, reports that such a program is multi-layered and encompasses many issues including confidentiality, ethical and technical concerns, as well as public policy determinations.

"It's an exhaustive effort and an expensive one," he says. "We have impressive research that looks at the whole genome, and connects it to disease and clinical applications. What we need now is a large data base of information of all of our patients; so that we can identify broader issues. It will take time, but the table is very well set here. We're impatient for what lies ahead, but in the meantime, we continue to be on the cutting edge." 

The late John B. Ziegler, class of 1949, would celebrate his 60th reunion this spring, while the late George E. Bennett, class of 1909, graduated 100 years ago. Both worked with elite athletes, devoted to helping them stay on top of their games. But with quite different approaches.

Start of the 'Roids Rage: Drugs' Roots Planted in York by Maryland Doctor John B. Ziegler, '49

By Childs Walker

Reprinted from the *Baltimore Sun*, November 2, 2008



John B. Ziegler in the 1949 Terra Mariae Medicus yearbook

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as the doctor a genius, delighted with the creations that sprung from his mind, or a hopeless egotist? Louis Riecke wasn't sure.

But something made him want to believe in John Ziegler, the big scientist with an even bigger ego. Riecke had pumped iron competitively for more than a decade when he met Ziegler in York, Pa., the mecca of American weightlifting for much of the 20th century.

Riecke had always been an excellent lifter but never quite among the world elite. Ziegler said he could change that.

So a few months after their encounter in late 1960, Riecke traveled from his home in New Orleans to Ziegler's office in Olney. In his garage, the doctor laid out a new regimen that would involve pushing against immovable surfaces, hypnotism, an improved diet and some little pink pills.

"I didn't know anything about them," Riecke said of the pills. "I know I sound naive, but I really didn't."

What Riecke couldn't have known was that he was an early test subject for a substance that would irrevocably change athletic competition worldwide. As it would for many others, Dianabol, an anabolic steroid, boosted him to the top of his sport with shocking rapidity.

But the spread of steroids in America did not hatch as a grand conspiracy. It began with a few lifters who wanted to get better and an ambitious Maryland doctor who thought he could expand human potential.

"It all goes back to York and the experiments that Ziegler was doing," said John Fair, a professor at Georgia College and State University who has written extensively on the rise of weight training and steroid use. "Other sports picked up on it, but his experiments were the beginning."

"He was sort of this Dr. Frankenstein, creating a monster that would overwhelm sports," Fair said.

But according to his correspondence and those who knew him, Ziegler was hardly fixated on the little pink pills as a miraculous key to human



Bodybuilder John Grimek, from the collection of the York County Heritage Trust, York, Pa

[continued on page 16]

A Tribute to the Father of Sports Medicine

George E. Bennett, Class of 1909



A 1957 rendering of George E. Bennett '09 by W. Reginald Watkins

One hundred years ago—in 1909—George E. Bennett received his medical degree from the University of Maryland School of Medicine. An orthopaedic surgeon, Bennett served on the faculty at Johns Hopkins and was elected president of the American Orthopaedic Association as well as the American Academy of Orthopaedic Surgeons. In 1927, he organized America's first rural crippled children's clinic in Lonaconing, Maryland. The project would serve as a model for the creation of other such clinics throughout the country. Four years earlier—in 1923—he began treating major league baseball players for bone, tendon, and joint injuries. The following was written about Bennett in the Scorecard section of the July 30, 1962 issue of *Sports Illustrated*:

Unsung hero.

After Dr. George E. Bennett died at 77 last week a photograph was found in a desk drawer of his Baltimore office. It showed Joe DiMaggio, Tommy Henrich, Charley Keller and Frankie Crosetti in their Yankee uniforms and was inscribed: "To Dr. George, the man who made this picture possible." Most men would have hung it prominently on a wall, but Dr. George was modest.

The inscription was true. DiMaggio was remembering an injury to his elbow. Dr. Bennett removed loose cartilage, caused by Joe's long throws, from the tendons. Henrich and Crosetti had remodeled knees, Keller a repaired ankle. Without the skills of the famed Johns Hopkins orthopaedic surgeon, the careers of all four, and of many others, would have been ended prematurely.

Big league clubs sent their players to Dr. Bennett because he was more than a gifted surgeon. His medical skill was supported by an extraordinary knowledge of baseball (he had played on a semipro team). He knew, for example, that a shortstop's most difficult play is going into the hole to scoop up a drive. When he gets the ball he must pivot on his right leg to make the long throw to first base. So when a shortstop came to him with a bad right knee, Dr. Bennett simply recommended that the shortstop become a third baseman.

Another time it was a pitcher who wrote that he had lost his fast ball. Dr. Bennett had operated on the boy's arm a few months before. "I figured he was favoring it by pushing the ball and not throwing it," Dr. Bennett recalled. He wrote a brief prescription: "Cock your wrist." Two days later a telegram arrived. "It worked," the wire said.

Larry MacPhail believes Dr. Bennett was responsible for the Dodgers' 1941 pennant. Whitlow Wyatt's control went sour, and MacPhail appealed to the doctor. "Build a mound in the bullpen," Dr. Bennett said. MacPhail scoffed but did it anyhow. That year Wyatt won 22 games. The doctor believed Wyatt's throwing motion was perfect and "had a movie made of it to show other pitchers.

Not only baseball players but other athletes flocked to Dr. Bennett's office. Eddie Arcaro says the doctor saved his career. Among football players he treated were John Unitas, Ray Berry, George Shaw and Don McIlhenny.

At a testimonial dinner in 1958, athletes he had helped paid tribute to him, some tearfully. Joe Garagiola relieved the tension with a remark: "After listening to that all-star team of players Dr. Bennett has mended," he said, "I'm sorta sorry I didn't break my leg." 🏠

improvement. Instead, he was a relentlessly creative thinker, always on the lookout for the next method, device or substance that would make men into supermen.

"The steroids were an adjunct," said Dick Smith, a former trainer for six Olympic teams, who was based at the York gym and who befriended Ziegler. "It's not fair to Doc, because he got blasted as the guy who started steroids. Well, he didn't start steroids."

Big personality

Fair saw in the doctor a mentality he has glimpsed in elite weightlifters. "They think big," he said. "They are big. They marry big wives, drive big cars, live in big houses. They have that superman mentality."

Riecke, now 82, recalls Ziegler much that way. "He was a very forceful type of person," the former world-record holder said. "He kind of felt he could will anything on you. He was way out there with some of his ideas, but you wanted to follow him anyway."

Ziegler, a strapping 6 feet 4, began studying medicine after he suffered grievous wounds to his shoulder and scalp as a Marine in the Pacific in World War II. His recovery inspired him to learn the craft so he could help other soldiers with rehabilitation.

In the course of rebuilding his own physique, he became interested in weight training. At some point in the early 1950s, Ziegler began injecting himself and fellow trainees with testosterone.

This was not a new idea. Scientists had learned to produce synthetic testosterone almost two decades earlier, and the Nazis researched the substance.

But the initial results did not impress Ziegler. He then met a bodybuilder named John Grimek, who had competed in the 1936 Olympics and was a close associate of Bob Hoffman, who had run the national lifting program for years out of his York gym.

Through his connection to Grimek, Ziegler became physician for a team that traveled to the 1954 world championships in Vienna, Austria.

There, he later told interviewers, he shared drinks with a Russian doctor, who let slip that Soviet athletes were already receiving testosterone injections. Despite that bit of intelligence, Ziegler dropped his experimen-



Ziegler standing tall in the background during a social hour organized by his class

tation with testosterone for several years.

In the late 1950s, however, Ciba, a New Jersey pharmaceutical company, gave the doctor samples of a new drug. The hope was that the substance would produce strength gains without the added aggression and sexual arousal caused by straight testosterone.

It was called Dianabol. Hoffman and his York lifters showed initial skepticism toward the pills. "What seems

obvious is that no one from York was eagerly embracing steroids at first and that they gained experimental use only because of Ziegler's insatiable curiosity," Fair wrote in a 1993 article for the *Journal of Sport History*.

York lifters Bill March and Tony Garcy showed rapid improvement after taking Dianabol in 1960.

March believed his improvement flowed mostly from isometric training (the exertion of force against an immovable object or surface). Garcy believed better mental preparation accounted for his gains.

About the same time, Ziegler began working with Riecke, an exceptional athlete and the thoughtful product of a liberal, learned New Orleans family.

Until he hooked up with Ziegler, Riecke was no more than a second-tier lifter. In less than a year with the doctor, he added a thick layer of muscle and became a serious threat to win Olympic gold.

"He was doing things that became the talk of the country," Fair said.

Riecke was surprised by the extent of his improvement. Like March and Garcy, he attributed it to the power of hypnosis and isometric training more than steroids. He did not seem to notice his poorer results coincided with periods when he cycled off steroids.

Ziegler told Riecke to keep his new training regimen secret at first. But Hoffman asked him how he had improved so rapidly during a conversation that included Ziegler. "Tell him," the doctor said.

So Riecke described the wonders of isometrics to York's lifting impresario.

"Next thing I knew, Hoffman had a book out about how he had invented isometrics," Riecke recalled with a laugh.

[continued at bottom of page 17]

Ziegler in the Spotlight

According to medical school classmates **John B. Ziegler, '49** was so big that it was impossible to remember him for his towering presence, but as a student he didn't stand out.

The massive 6 feet 4 inch, 230-pounder began classes at Maryland in September 1943 and finished in the class of 1945. **John M. Dennis**, who served as chairman of Maryland's department of anatomy and physiology from 1973 to 1990, was a member of the class.

"As a private in the military, I recall standing in formation in Davidge Hall during our first year," Dennis says. "A red-faced colonel walked in and told us we needed to buy one \$25 war bond each month. From the rear of the room this tall man (Ziegler) raised his hand and asked, 'Would you mind if I didn't buy one?' and showed us a trunk full of Confederate war bonds in his attic back home."

Ziegler dropped out of medical school—no one recalls exactly what happened—but he re-enrolled in 1949 and was accepted under the dearship of **Robert Urie Patterson, MD**, a former major general in the U.S. Army.

Now a member of the class of 1949, Ziegler was introduced to a new crop of students. **John F. Strahan** was among them. He recalls Ziegler arriving on campus in a Cadillac convertible, as he claimed to have won in a poker game.

"He wore his marine uniform and had scars over his body from shrapnel wounds," says Strahan. "Ziegler had only one good eye and told us he had contracted malaria while fighting in the South Pacific. He was an engaging fellow to be around in school, but not many of us chose to socialize with him," Strahan adds.

One person who did spend time with Ziegler was **Lillian Koch, '49**. She was one of just eight females in the class. They married before graduation.

Ziegler was an average student, according to his classmates. "But he had the drive of a locomotive," comments Strahan. "And when he went on one of his tangents there was no stopping him."

So it came as no surprise that Ziegler became caught up in the medical arms race with the Soviet Union after attending the 1954 World Games in Vienna as a member of the medical staff. He witnessed Russian athletes using urinary catheters and suspected they had enlarged prostates from taking testosterone. His theory was later confirmed by a Soviet doctor. The experience set him on a course to develop a drug that could build muscle without the negative side effects of testosterone.

In alumni correspondences, Ziegler listed his specialty as "physical medicine," and he was obviously very focused in his endeavors because neither he nor his wife attended many reunions. After graduation they headed for Norfolk, Virginia, where he trained at the Marine Hospital and she with the Public Health Service. Later, while living in Olney, Maryland, Lillian served on the pediatrics staff at the Walter Reed Army Hospital. Ziegler died in 1983 and his wife in 2006.

Over the past decade Ziegler has become recognized as the father of the American anabolic steroids movement. He was spoofed last summer during the ESPY Awards on ESPN, as an actor portraying Ziegler accepted a lifetime achievement award.



Lillian Koch, '49, whom Ziegler married in medical school

Not scientific

In correspondence unearthed by Fair, Ziegler sounds unsure which of his methods led to Riecke's great leaps in performance. He didn't run proper scientific experiments, with control subjects and adequate sample sizes. Instead, he worked with a handful of athletes and bombarded them with everything from hypnosis to isometric training to an electrical device he called the isotron.

"He had a great imagination, and he developed all sorts of possibilities," Fair said. "But I'm not sure the doc ever really knew where his results came from."

Ziegler's fast-and-loose experimentation fit with his outsized personality. He smoked, drank and liked to hit the town in his convertible. He was a John Wayne devotee who dressed in cowboy and Indian costumes with some frequency.

Smith, the former Olympic trainer, remembered stopping for a drink in Westminster on one car trip from Olney to York. "Nothing unusual about that," he said, "except Doc was dressed as an Amish preacher."

Ziegler requested a double shot of whiskey and asked the bartender whether that seemed strange given his outfit. It did, the man replied.



Former Olympic trainer Dick Smith (Baltimore Sun photo by Barbara Haddock Taylor)

"I'm working on a sermon about the nature of good and ee-vile," Smith remembered the doctor saying. "I know a lot about good, but I need to know more about ee-vile. So give me another belt."

He had a nickname for everyone. Hoffman was BoHo. Smith was Schmidnick. Ziegler's young son was Knee Deep because he was always in trouble.

Ziegler's beagle, Clyde, held place of honor at the family dinner table, often receiving the first serving.

"I've met a lot of big personalities in my time, but Doc was one of the biggest," Smith said. "I can sit on my recliner and laugh out loud at the memories."

Ziegler also gave steroids to Smith, who was never a competitive lifter but wanted to know what it was like to heft serious weight.

The trainer took three pink pills a day on a six-week cycle, then alternated off the drug for five weeks. In 11 months, Smith gained 20 pounds of muscle. His quest climaxed when he raised 1,010 pounds on his shoulders in a squat.

"I had found out all I needed to know," he said. Smith stopped using steroids.

Eventually, Riecke suspected he needed the pills to maintain success. "I hate to attribute any portion of our success to medicinal factors," he wrote in a 1962 letter obtained by Fair. "But some portions of my improvement coincided with my ingestion of them."

His demands for the pills became more incessant. He acknowledges now that Dianabol was probably the driving force behind his late-career improvement. He set a world record in the snatch in 1964, the year he turned 38, and made the 1964 Olympic team.

"It helped me," he said.

Riecke doesn't look back with regret. He took no more than 10 milligrams of Dianabol a day and never suffered ill effects. He became a strength coach for the Pittsburgh Steelers in the 1970s and said he never suggested steroids to players because "I didn't believe in it."

No qualms

When it became apparent that the pink pills had a lot to do with the York lifters' sudden surges in strength, few seemed to find the conclusion ethically troubling.

"That came later, maybe in the late 1960s," Fair said. "At that point, it became a whispering issue. 'How did he get so much stronger?' And, of course, if you're the lifter, you want people to think it's really you."

Even if the drugs had been taboo, Fair suspects that many lifters would have used them.

"If he had told me to eat grass, I would have done so to get strong," Bill March told him in one interview about Ziegler.

Even as lifters gained wisdom about the effects of the pink pills, Ziegler seemed to lose interest and shift

Smith said the doctor [Ziegler] expressed misgivings in the early 1960s. When he found that lifters were doubling their doses by going to a pharmacist in York, he refused to write them any more prescriptions, the trainer recalled.

his focus to the isotron, a device that supposedly replicated nerve impulses delivered from the brain to the muscles. He believed it would make him wealthy and even bragged to Riecke that John Unitas had shown an interest. He said he had increased muscle mass in foxes and snakes with the device.

But as Ziegler turned away, anabolic steroid use increased exponentially through the mid-1960s. The doctor eventually tried to shove the genie he had unleashed back into its bottle, saying in a 1967 article for *Strength & Health* that steroids "are categorically condemned for the athlete."

He complained in a 1969 *Sports Illustrated* article that the York lifters "went crazy about steroids." Two years before his death in 1983, he told lifting historian Terry Todd he regretted his involvement with the drugs.

Smith said the doctor expressed misgivings in the early 1960s. When he found that lifters were doubling their doses by going to a pharmacist in York, he refused to write them any more prescriptions, the trainer recalled. He performed liver function tests every four months to make sure the drugs weren't harming his subjects.

"He really was trying to do it on a clinical basis," Smith said. "And remember, steroids were legal."

"I don't think he ever wanted this to become a negative," Fair said. "What an imagination this guy had. He did lead us forward. He just happened to lead us into a terrifying world." 🏠



**He thinks the peppers
are disagreeing with him.**

What he doesn't know is that what he believes is indigestion is really a paraesophageal hiatal hernia, a very rare form of hernia. He doesn't know that in 2 months he'll receive laparoscopic surgery at the University of Maryland Medical Center, or that 2 days later he'll be home. Looking forward to having peppers.



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Appointments to National Organizations

Claudia R. Baquet, MD, MPH, associate dean for policy & planning, professor, department of medicine, and director,



Claudia R. Baquet, MD, MPH

program in minority health and health disparities education and research, was appointed to a policy and reviewing group entitled "Transforming the Role of Prevention in

the Nation's Health Care System," of the National American Cancer Society and American Cancer Society Cancer Action Network. The group is charged with reviewing and making recommendations on national health reform policy related to cancer prevention. Products produced by the group will be used to guide the national health reform debate and solutions on prevention.



Miriam Blitzer, PhD, FACMG

Miriam Blitzer, PhD, FACMG, professor, department of pediatrics, was elected president-elect of the Association of Professors of Human and Medical Genetics. Blitzer's term began July 2008 and runs until 2010

at which time she will assume the presidency for a two-year term.

Wallace Johnson, MD, assistant professor, department of medicine, completed a two-year term as chair of the pharmacy and therapeutic preferred drug list committee of the Medicaid pharmacy division for the State of Maryland. The committee's task is to provide recommendations to the State of Maryland regarding which medications should be placed on the preferred drug list for Maryland Medicaid recipients.



Wallace Johnson, MD

David K. Klassen, MD, professor, department of medicine, has been named chair of



David K. Klassen, MD

the medical advisory board for the National Kidney Foundation of Maryland. The foundation is dedicated to preventing kidney and urinary tract diseases, improving the health and well-being of individuals and families

affected by these diseases and increasing the availability of all organs for transplantation.

Mandeep Mehra, MBBS, professor, department of medicine, was appointed president for the 2008 to 2009 term of the International Society for Heart and Lung Transplantation, the premier society that focuses on basic and clinical science of the failing heart and advanced lung disease.



Mandeep Mehra, MBBS

Eric Slade, PhD, associate professor, department of psychiatry, was appointed as a standing member to the National Institute of Mental Health's mental health services in non-specialty setting review committee.

Awards & Honors

Mordecai P. Blaustein, MD, professor, departments of physiology and medicine, has been honored

as a recipient of the Novartis Award for hypertension research. Blaustein received the award, one of the highest honors in the hypertension research field, at the annual conference of the American Heart Association's council for high blood pressure research in Atlanta on September 19, 2008. The award recognizes Blaustein's



Mordecai P. Blaustein, MD

ground-breaking discoveries exploring the biological mechanisms by which salt raises blood pressure. The award has been presented to outstanding scientists in the field each year since 1966, when the American Heart Association first began to recognize the importance of hypertension to heart health.

William T. Carpenter Jr., MD, professor,

departments of psychiatry and pharmacology & experimental therapeutics and program in neuroscience, was one of 15 scientists awarded a 2008 distinguished investigator award from NARSAD, the world's leading charity dedicated to funding research on psychiatric disorders. NARSAD will provide Carpenter \$100,000 for one year to advance his research on new drugs for schizophrenia. This highly competitive grant program is designed for investigators of brain and psychiatric disorders who have established themselves as leaders in their fields. NARSAD's 2008 recipients are involved in a wide variety of vital research projects, ranging from the genetics of mental illness to innovative brain imaging studies.



William T. Carpenter Jr., MD



Alessio Fasano, MD

Alessio Fasano, MD, professor,

departments of pediatrics, medicine and physiology, and director of the mucosal biology research center, was awarded the title of *Magister Insignis* by the La Nuova Scuola Medica

Salernitana (New Medical School Salernitana) in Salerno, Italy. He is the fourth recipient to receive such an honor.

E. Albert Reece, MD, PhD, MBA, Maryland's vice president for medical affairs and the medical school's John Z. and Akiko K. Bowers Distinguished Professor and Dean, was named chair of the Association of American Medical Colleges' (AAMC) National Council of Deans for 2008-2009. The council strives for the continuing improvement of the nation's medi-



E. Albert Reece, MD, PhD, MBA

cal schools through identifying issues affecting academic medicine and developing strategies to achieve the various missions of medical schools. As chair, Reece will be an advocate for the AAMC and the nation's

medical schools, promote the advancement of institutional management, and support fellow deans in guiding individual schools toward excellence in medical education, research, and patient care.



Thomas Scalea, MD

Thomas Scalea, MD, Francis X. Kelly Professor of Trauma Surgery, and physician-in-chief, R Adams Cowley Shock Trauma Center was presented with a special United States flag that was flown in support of Opera-

tion Iraqi Freedom and Operation Enduring Freedom. The presentation was made in June 2008 by the command staff of the center for the containment of trauma and readiness skills (C-STARS) program in recognition of the continued support Scalea and the staff at Maryland's trauma center give to C-STARS. C-STARS represents a partnership between our trauma center and the United States Military.

Events, Lectures & Workshops

Robert A. Barish, MD, vice dean for clinical affairs and professor of emergency medicine, served as conference chairman for the 130th General Conference of the National Guard Association of the United States from September 20–22. The event attracted more than 5,000 registrants and included a re-enactment of the British attack on Ft. McHenry, plus appearanc-



Robert A. Barish, MD

es by both presidential candidates. The conference was last held in Baltimore in 1944. Barish is a colonel in the Maryland National Guard.



Steven J. Czinn, MD

Steven J. Czinn, MD, professor and chair, department of pediatrics, discussed *H. pylori* vaccines at a workshop held by the National Institutes of Allergy and Infectious Diseases' division of microbiology and infectious diseases/enteric and hepatic diseases branch in July 2008 in Bethesda,

Maryland. Czinn also served as one of the moderators of the risks and benefits sessions.

Timm-Michael Dickfeld, MD, PhD, assistant professor, department of medicine, presented "Advances in Imaging for Real Time Ablation Mapping" at the 12th Annual Scientific Meeting of the Heart Failure Society in Toronto, Ontario, as well as "Use of Imaging in VT Ablation: MRI, CT and PET-CT" at the 3rd Annual International Symposium on Ventricular Arrhythmias in Miami.



Timm-Michael Dickfeld, MD, PhD

Alessio Fasano, MD, professor, departments of pediatrics, medicine and physiology, and director of the mucosal biology research center, presented a lecture entitled "A Humorous and Informative Look at Celiac Disease" to the Gluten Intolerance Group Annual Education Conference in Dallas in June 2008.

Gary Fiskum, PhD, professor and vice-chair for research, department of anesthesiology, presented a plenary lecture titled "Loss of NAD(H) Limits Mitochondrial Respiration after Neonatal Cerebral Hypoxic Ischemia" at the

European Bioenergetics Congress in Dublin, Ireland, in July 2008. Additionally, in August 2008, Fiskum presented "Neuroprotection by Combination Therapies Directed at Oxidative Stress" at Semmelweis University in Budapest, Hungary, and the Ludwig Boltzmann Institute for Traumatology in Vienna, Austria. He also chaired a plenary session titled "Mitochondrial Signaling" at the Gordon Research Conference on brain energy metabolism and blood flow in Andover, New Hampshire.

Lixing Lao, PhD, professor, department of family & community medicine, gave a lecture entitled "Acupuncture Activates Endogenous Resilience to Inflammatory Pain" at the Beijing Joint Conference of Physiological Sciences in China in October 2008.



Lixing Lao, PhD

Mary C. McKenna, PhD, associate professor, department of pediatrics, was the keynote speaker at the 2008 Third ISN Special Neurochemistry Conference/8th International Meeting for Brain Energy Metabolism entitled "Neurodegeneration and Regeneration" in Beijing, China, in June 2008. McKenna's talk was entitled "Changing Concepts in Brain Energy Metabolism." Additionally, she chaired the student data blitz session at the same meeting and was one of a small group of scientists honored by the mayor of Xuchang City and invited to visit the Lingjing paleolithic site. It was discovered in late 2007 and is not yet open to the public.

Feyruz Rassool, PhD, associate professor, department of radiation oncology and program in oncology, chaired a session entitled "Biology I-Molecular Determinant" at the American Society for Therapeutic and Radiation Oncology in Boston in September 2008.

Thomas M. Scalea, MD, Francis X. Kelly Professor of Trauma Surgery, department of surgery, and director of the program in trauma, presented four lectures at the 33rd Annual Scientific Meeting of the Royal College of Surgeons of Thailand in July 2008 in Pattaya. Scalea's lectures were "Strategies on Trauma

faculty

Management," "Hemodynamic Monitoring During Trauma Resuscitation," "Permissive Hypotension During Trauma Resuscitation," and "Role of Recombinant Activated Factor VII in Controlling Massive Bleeding with Coagulopathy Associated with Trauma and Surgery."



Hervé Tettelin, PhD

Hervé Tettelin, PhD, associate professor, department of microbiology & immunology and institute for genome sciences, presented "Impact of Horizontal Transfer Events: the Genomics Perspective" and "The Micro-

bial Genome: from Data Mining towards Gene Function and Vaccine Applications" at the Society of General Microbiology Symposium in Edinburgh, Scotland, in April 2008 and at the Erasmus Postgraduate School for Molecular Medicine's 2nd symposium and workshops on molecular microbiology of infectious diseases in Rotterdam, Holland, in June 2008.

William Weiner, MD, professor and chair, department of neurology, co-presented "EMBR: Help or Hindrance to Clinical Management?" at the 12th International Congress of Parkinson's Disease and Movement Disorders in June 2008 in Chicago.



William Weiner, MD



W. Gil Wier, PhD

W. Gil Wier, PhD, professor, department of physiology, gave an invited lecture at the annual meeting of The Physiological Society in Cambridge, England, in July 2008. His lecture was entitled "Sympathetic Neurotransmission in Small Arteries: ATP, Norepinephrine and NPY."

Book/Textbook Publications

A. Annie Frazier, MD, clinical associate professor, department of diagnostic radiology & nuclear medicine, served as the chief illustrator for *War Surgery in Afghanistan and Iraq: A Series of Cases*, 2003–2007, the first military battlefield surgery/medicine manual to be published during the era of the conflict it describes. The book was reviewed on August 5, 2008, in the health section of the *New York Times*. In addition to her work as a practicing radiologist, Frazier is an accomplished artist and medical illustrator.

Grants & Contracts

Abdu F. Azad, PhD, professor, department of microbiology & immunology, received a \$2.8 million competitive renewal of his R01 grant for years 25, through 29 from the National Institute of Allergy and Infectious Diseases for his work entitled "Murine Typhus: Vector Biology and Transmission."

Stephen Bartlett, MD, professor and chair, department of surgery, received a one and a half year, \$2.9 million grant from the Office of Naval Research for his work entitled "Composite Tissue Transplantation for Civilian and Combat Casualties."



Abdu F. Azad, PhD



Stephen Bartlett, MD



Maureen Black, PhD



Soren Snitker, MD, PhD



Laurence Magder, PhD

Maureen Black, PhD, **John A. Scholl, MD**, and **Mary Louise Scholl, MD**, professors of pediatrics, **Soren Snitker, MD, PhD**, assistant professor, department of medicine, and **Laurence Magder, PhD**, associate professor, department of epidemiology & preventive medicine, received a five-year, \$2.9 million R01 grant from the National Institutes of Health for their work "Challenge in Schools —Adolescent Overweight Prevention." They plan to implement and evaluate a multi-level after-school program to prevent obesity among seventh grade girls in Baltimore City Public Schools.

Robert J. Bloch, PhD, professor, department of physiology, received a five-year, \$1,485,000 research grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases for his work entitled "Organization of Sarcoplasmic Reticulum in Skeletal Muscle."

Steven J. Czinn, MD, professor and chair, department of pediatrics, received a four-year, \$1.6 million grant from the National Institute of Diabetes and Digestive and Kidney Diseases for his work entitled "Mucosal Immunology of Helicobacter Induced Gastritis."

Jeffrey Hasday, MD, professor, department of medi-



Jeffrey Hasday, MD

cine, received a four-year, \$1.5 million competitively renewed R01 from the National Heart, Lung and Blood Institute for his work entitled "Mechanisms of Fever-Enhanced Acute Lung Injury."



Kirsten Lyke, MD

Kirsten Lyke, MD, assistant professor, department of medicine and center for vaccine development, received a four-year, \$1.1 million R01 grant from the National Institute of Allergy and Infectious Diseases to study the immunological interactions between malaria and schistosomiasis in children in Mali. Her project is entitled "Immunologic Determinants of Schistosoma-mediated Resistance to Malaria in Humans."

Leonid Medved, PhD, professor, department of biochemistry & molecular biology and the center for vascular and inflammatory diseases, received a four-year, \$1.5 million R01 grant from the National Heart, Lung and Blood Institute for his work entitled "Fibrin(ogen) Structure and Interactions."



Jean-Pierre Raufman, MD


Jean-Pierre Raufman, MD, professor, department of medicine, received a four-year, \$1.2 million award from the National Cancer Institute for his work entitled "Role of M3 Muscarinic Receptors in Bile Acid-Induced Colon Cancer." The work proposed will demonstrate that M3 muscarinic receptors mediate bile acid-induced promotion of intestinal neoplasia. The goals of this application are to establish the

critical role of M3R expression for murine intestinal neoplasia, establish that bile acid-induced M3R activation promotes intestinal neoplasia by ERK-mediated gene transcription; and establish that pharmacologic inhibition of M3R mimics the effects of M3R gene ablation and reduces intestinal neoplasia.

Mark A. Rizzo, PhD, assistant professor, department of physiology, received a five-year, \$1.5 million from the National Institute of Diabetes and Digestive and Kidney Diseases for his work entitled "Regulatory Mechanisms of Insulin Secretion."



Alice Ryan, PhD

Alice Ryan, PhD, professor, department of medicine, received a five-year, \$2 million R01 grant from the National Institute on Aging for her work entitled "Aging, Inflammation and Exercise in Chronic Stroke." 

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Keeping the Guard Up

By Bill Atkinson

Like most of us, Adam F. Dorin, '89, remembers September 11, 2001, like it was yesterday. He remembers where he was standing when the jets slammed into the World Trade Center towers. He remembers how he felt, who was standing next to him and their reactions.

It was the behavior of a group watching television in the hospital lounge that took Dorin by surprise. As the planes struck the buildings, he observed some of his Middle Eastern colleagues finding satisfaction in the destruction. "It was one of the most unsettling experiences of my life," says Dorin. "It sent shivers down my spine. I felt bad, horrible, disgusted."

Those emotions gnawed at Dorin for years until he finally put them down on paper in a book entitled *Jihad and American Medicine: Thinking Like a Terrorist to Anticipate Attacks via Our Health System*.

Published in November 2007, the book warns that our nation's health care system is vulnerable to terrorist attack and lives are at stake. Groups that want to harm U.S. citizens can cause terror and panic without having to create a huge number of casualties by exploding bombs or flying jet planes into buildings.

Dorin, who is 45 and medical director and anesthesiologist at Sharp Grossmont Plaza Surgery Center in San Diego, Calif., argues in his book that terrorist physician and health care workers can infiltrate hospitals and administer drugs to patients that ultimately will kill them. Patients have been killed with high doses of drugs that paralyze the body and cause hypoxia, cardiac medicines that overwhelm the system and cause vascular system collapse, and high doses of opiates and narcotics, he says.

"Almost all of them were perpetrated by putting something into somebody's IV bag or multi dose vials," he says.

Dorin estimates that as many as 120,000 people die each year from 1.5 million medical errors. "I think there is much more going on than we see. I don't think these are all accidents," he says.



Another avenue for launching terrorist attacks is through the manufacture of counterfeit drugs, which has exploded into an \$80 billion a year industry, Dorin says. Terrorist organizations are using proceeds from counterfeit medicine to finance operations bent on harming U.S. citizens. Money from counterfeit drugs has been traced to Hezbollah and Al Qaeda, Dorin contends. "They were looking to taint Lipitor by doubling or tripling the dose to cause liver failure in millions of Americans," he says. "The terrorists are fairly well educated, fairly intelligent guys. They are just warped."

Dorin says the U.S. health care system must do a better job screening foreign health care professionals who come to work here. Hospital grounds must be monitored day and night as well as areas within hospitals where drugs are stored. The government needs to ferret out counterfeit drug traffickers and put them out of business. Drugs need to be tracked from the factory to the bedside, he says. "There should be a mandate for a better system," Dorin says.

A prolific writer, Dorin's book has received quite a bit of attention. The *Journal of American Medical Association* called it an "eye opening for readers," while the *National Arab American Medical Association* charged that while the book makes some valid points it perpetuates "racial profiling."

Academics, elected officials and security personnel have reacted favorably to the book while doctors are slowly coming around to it, says Dorin, whose wife is of Middle Eastern descent. "It has been rather rewarding," says the father of three grown children.

Dorin warns that the biggest risk from a national security standpoint is complacency. "One thing I know pretty well: there are people who want to do us harm; they are not going to want to stop," Dorin says. "They take this very seriously. On any level you can't just be nice and expect your friendliness to overcome things. There is no question there is going to be another 9-11."

120 Years Ago



In 1889, Louisa Parsons opens the Maryland Training School for nurses at the medical school's infirmary. Parsons, an 1860 graduate of the Miss Nightingale's Nursing School and Home, promises that her new school will solve the hospital labor shortage. The name eventually changes to the University of Maryland School of Nursing.

75 Years Ago

In 1934, patients transfer from the old hospital building, located on the site of the original Baltimore infirmary, to the new building on Greene and Redwood streets. The new hospital is the first to be underwritten by the State of Maryland.



20 Years Ago

In January 1989, the first patients are received at the R Adams Cowley Shock Trauma Center. The facility includes a rooftop heliport capable of accommodating four Med-Evac helicopters. Located at Lombard and Penn Streets, the facility has 11-levels and costs \$41 million.

recollections

A look back at America's fifth oldest medical school and its illustrious alumni

By Bill Atkinson ALUMNUS PROFILE:

Kramer's Collection



Morton D. Kramer, '55

Morton D. Kramer collects stuff—lots of stuff.

He collects vintage cast iron toy banks, antique slot machines, Winchester rifles that actually shoot, fire crackers, cigarettes, and artifacts from Maryland's Eastern Shore like the massive, nine-foot punt gun—used in the 19th and 20th centuries for killing many ducks and geese with one shot—that hangs on the red brick wall above his fireplace mantle. He even has a nearly full glass medicine bottle of whisky prescribed by a physician during Prohibition (advises the patient to swallow two tablespoons every hour).

"I have stuff everywhere," says Kramer. "I love stuff. I collect all kinds of stuff."

But the guns, cigarettes, and banks are a sidelight compared with Kramer's real passion: collecting hand-carved wooden duck and goose decoys. Some are decorative while others are intended to be used in the field by hunters. Kramer, who is 82 and retired, owns hundreds of decoys displayed throughout his family room, living room, dining room, study, and basement. His collection is so extensive that he was recently featured in *Decoy Magazine*, and he has donated decoys to the Havre de Grace Decoy Museum in Maryland.

Like books in a library, most of the decoys are neatly displayed on shelves that take up an entire wall in his family room, designed by his late wife, Carol. A library ladder slides along the unit enabling Kramer to reach the top shelf. Each decoy is labeled with a small piece of paper attached to its neck by a thin piece of string. Some decoys are kept in a lighted glass case.

There are mallards, canvasbacks, shovelers, pintails, and scaups, all beautifully carved and painted. Some decoys are easily worth thousands of dollars, but Kramer has never had his collection appraised because he doesn't intend to sell it.



He also has a growing collection of wood carved shore birds that include plovers, peeps, snipes, and yellow legs. Some look so lifelike that they appear ready to take flight.

The family room has a museum quality; it is cozy, yet rugged with a fireplace, leather couch, piano, and cache of antique duck and goose hunting guns. Kramer picked up a decoy, felt its smoothly carved features and soft intricate ridges. "I just enjoy it," says Kramer, who wears blue jeans and a pullover sweater. "There is a story behind every bird. That is the most important part of it. Otherwise, they are just pieces of art work."

Kramer's story began in the Roaring Twenties. He was born in Baltimore in 1926, the youngest of four boys. When he was 13, Kramer worked in a drugstore delivering ice cream, magazines, and other items for 50 cents a night.

At 17, he enlisted in the Coast Guard and was shipped to California. Upon being discharged, Kramer "loafed" around for a year and then enrolled in the university's pharmacy school. He graduated in 1950, but one day he made a trip to a local hospital and had an epiphany. He had never set foot inside a hospital other than to have his tonsils removed as a kid and was amazed to see doctors working with patients.

"I didn't want to fill prescriptions; I wanted to write prescriptions," says Kramer.

Kramer returned to school and graduated in 1955. After a rotating internship at Maryland, followed by an internal medicine residency at Sinai, he returned to his alma mater as the school's first neurology resident under the direction of **Charles Van Buskirk, MD**, Maryland's first neurologist, and by **Jerome K. Merlis, MD**, a nationally-regarded epilepsy expert. Upon completion of training, Kramer became the first neurologist and full-time EEGer at St. Agnes Hospital in the 1970s. He also opened an electroencephalography lab at St. Joseph Hospital in Towson.

When not working, Kramer was hunting ducks, geese, and occasionally deer. A fellow physician had introduced him to the sport, and Kramer quickly fell in love with it. After work he jumped in his car and headed to Wye Island to shoot geese and ducks. At times he was so excited he threw a hunting jacket and pants over a suit and tie.

"The worse the weather, the better the hunting," says Kramer. "Sometimes I would just put the gun aside and watch them fly. The sky would be black with geese."

In the early 1960s, Kramer met Norris Pratt, a gun collector and decoy aficionado. Pratt introduced Kramer to the world of wood-carved decoys and to a couple of barbers on Maryland's Eastern Shore. Not only could they cut hair but Steve and Lem Ward were two of the most talented decoy makers in the country.

Soon Kramer began collecting Ward decoys and forged a fast friendship with the brothers. Each month he traveled to Crisfield, Maryland, to visit the brothers, and began building his collection, buying many of their works.

"I can't tell you what a privilege it was to know the Wards," Kramer says. "They were unschooled but extremely knowledgeable."

In 1968, Kramer married Carol Waghelstein, a speech pathologist whom he had met at a party. "When I married Carol, she didn't know a shotgun from a carving knife," Kramer says.

But she embraced his passion and soon traveled with her husband to decoy shows and developed a keen eye for quality pieces. Carol even learned to prepare venison and a tasty goose for Sunday dinner.

The Kramers had two children, **Rachel, '97**, and **Andrew, '99**, who spent time on the Eastern Shore playing in the Ward brothers' shop. Rachel is an oncologist in New York, and Andrew is a urologist at Maryland. In 2001, Carol died from lymphoma, and Kramer's collecting partner of more than 30 years was gone.

Once a year, Kramer and his children exhibit decoys at the Easton Waterfowl Festival in Maryland. He has been exhibiting for 38 years, since the festival began. "I think I am the oldest exhibitor now," he says. They also attend the Havre de Grace annual decoy show each spring.

At his home, Kramer walked down a flight of steps into his basement where he keeps the antique slot machines. A deer and a pronghorn antelope that he shot are mounted on the wall. But there are more decoys on a shelf in the corner of the room.

"It's all stuff," Kramer says with a sigh. "Just stuff. It has kept me going. I love it." 🦆

Just stuff. It has kept me going.

advancement

Faculty Member Honors Mother, Advances Trauma Program

For more than three decades, the University of Maryland has been synonymous with exceptional trauma care and served as the gold standard for similar programs throughout the world. Many generally accepted practices and commonplace techniques used by trauma

physicians find their origins here at the R Adams

Cowley Shock Trauma Center.

Since Dr. Cowley's pioneering days, Shock Trauma has become a statewide

treasure and the universally accepted model for trauma care. Now, under the leadership of **Thomas Scalea, MD**, the Francis X. Kelly Professor of Trauma Surgery, Shock Trauma continues to evolve in new ways, adding research and prevention of traumatic injury to its expanded vision. "It's not enough for us to treat Maryland's most critically ill and injured," comments Scalea, "it is our responsibility to conduct research that seeks to understand the causes, advance the treatment and improve the outcome for patients who suffer traumatic injury."

Shock Trauma received a significant boost to its mission in 2000 when it became the first such program to receive an endowed professorship—the one presently held by Scalea. Recognizing the invaluable impact

this professorship has made upon his work, Scalea has, in turn, generously established what will become a third endowed professorship to support Shock Trauma.

"This professorship is a tribute to the guidance and inspiration that I received from my mother," explains Scalea. "As a single parent and an elementary school teacher, she instilled in me and my siblings a spirit of service and a passion for learning."

The professorship, also supported by The Hon. Francis Kelly, Shock Trauma board chairman, and friends and alumni, is a lasting tribute to Mrs. Anne Scalea. It will permanently fund a leading trauma expert whose work will significantly enhance the quality of care available to the citizens of Maryland and beyond.

Wilson Legacy Fund Ensures Equal Access

During his tenure as dean, **Dr. Donald E. Wilson** was nationally recognized by the Association of American Medical Colleges (AAMC) as a leader and role model for increasing racial and ethnic diversity in academic medicine among physician leaders, faculty, staff, and students. The medical school doubled its number of minority faculty members and significantly increased its minority applicants and admissions through a variety of initiatives during Wilson's tenure.

In order to honor Wilson's legacy and continue the school's enduring commitment to enhancing the diversity of its students and the medical profession, **Otha Myles, '98**, and **Charlotte Jones-Burton, '99**, are leading an effort to establish the Dean Emeritus Donald E. Wilson Endowed Scholarship. The scholarship will assist the school to continue recruiting a diverse and vibrant student body,

essential to ensuring quality health care for all populations.

Medical students who demonstrate a record of leadership and community service and express an interest in practicing medicine in historically underserved communities or at academic medical institutions serving such communities will be eligible to receive the scholarship.

Maurice Reid, '99, was among the first to support this initiative with a leadership gift. "Dean Wilson has been a tireless champion of racial and ethnic diversity in academic medicine," says Reid. "He understands that in order to provide better health care among historically underserved populations, the medical schools must educate a more diverse medical student population. This scholarship is a tribute to his efforts and will strengthen the school's ability to achieve his vision."

The medical school will host the second annual Celebrating Diversity Reception and Dinner on February 7, 2009. The Medical Alumni Association will be the presenting sponsor, and proceeds from the event will benefit the Wilson Scholarship and the diversity scholars program.

Annual Phonothon Nets \$147K

More than 170 alumni and student volunteers raised \$147,051 in pledges during this year's phonothon from historic Davidge Hall. More than 1400 alumni were contacted during seven nights of calling in September. Gifts to the annual fund support the medical school in a variety of ways, including student financial aid. An earlier mail campaign netted \$363,929 in gifts and pledges, bringing the total to \$510,980. If we haven't yet heard from you, gifts to the annual fund for fiscal year 2009 will be accepted until June 30. We appreciate your support!



350 Baltimoreans Attend CommUNITYFEST

The University of Maryland School of Medicine Student National Medical Association held its seventh annual CommUNITYFEST at Lexington Market on September 20, 2008. The health fair offers free health screenings and offers educational materials to local residents. This year some 350 residents turned out for the event. Vendors included the Maryland State Health Department, Smoke-Free Bus, and Baltimore Health Care Access. More than 60 university students participated in the event, including members from the UMB Student National Dental Association, Christian Society, and Pediatrics Interest Group. The event was sponsored in part by the Medical Alumni Association.

Class of 2012 Receives White Coats

The white coat is not only a traditional symbol of the medical clinician and scientist, but has come to represent the knowledge, skill, and integrity of the medical professional and the highest standards of professional work. Members of the first-year class were reminded of this during a ceremony on October 30 when they accepted

their white coats, signed the medical school's honor registry, and recited the student oath. More than 200 family members attended the event in the Medical School Teaching Facility.



Mentor Ronald Goldner, '65, with Eva Derecskei, '09

Derecskei Wins Dermatology Diversity Mentorship

Eva Derecskei, '09, is the recipient of the American Academy of Dermatology Association Diversity Mentorship Program. The program is meant for medical students from ethnically and socioeconomically diverse backgrounds to gain exposure to the

specialty of dermatology by providing a first hand, one-on-one mentorship experience with the dermatologist of the student's choice. The 160-hour mentorship is a valuable experience for students interested in dermatology as well as other fields. Derecskei is applying for a residency program in family medicine, where her month spent on dermatology will certainly be a valuable experience to draw upon.

Smith Receives Nataro Family Scholarship

Matthew Smith, a first-year MD/PhD student, was named recipient of the Nataro Family Scholarship for 2009. Smith is a 2006 graduate of the University of Pittsburgh. The award was established several years ago as a lasting memory of Joseph Nataro, '25, whose three sons and grandson are also Maryland alumni.



Matthew Smith and James P. Nataro, MD/PhD, '87



The class of 2012 at the White Coat ceremony on October 30

1936: Milton H. Stapen of Floral Park, N.Y., reports the birth of great grandson Theodore on November 14, 2008. **1938:** Joseph M. George Jr., of Las Vegas is going well at age 95. **1939:** Oscar Hartman of Sarasota, Fla., reports that he plays Bridge, poker, and golf, while wife Lee enjoys Bridge and swims (as well as teaches swimming). Both are now 92 years old and love every minute in Florida.

1941: Aurora F. Alberti-Gordon of Bethesda, Md., is mourning the death of classmate Ydalia Ortiz, who was full of vitality, intelligence, and insight. **1943D:** Luis M. Isaales of Boca Raton, Fla., extends greetings to his classmates. **1944:** Melvin Anchell of Mission Viejo, Calif., reports that his book *How I Lost 36,000* is being re-published. **Edmond Scavone** of San Antonio continues living at home with a full-time companion. He's ambulatory and in relatively good health, but cannot take long trips. Scavone has been retired since 1990. **1947:** Anne D. Mattern of Rockville, Md., reports that she is beginning work on her annual class summary which, once completed, will be mailed to all surviving classmates. She continues mowing three acres of grass, swims, sews, and is busy with family and friends. All classmates are being remembered in her prayers. **1948:** John R. Shell of Gulf Shores, Ala., is playing nice golf courses with wonderful weather, and has his health and a good church. **1949:** Alberta M. Polin of Forest Park, Ill., has all the aches and pains associated with an 85-year-old body. She continues to live independently and enjoys the opera and her book clubs, and she loves living in Chicago. Polin extends greetings to her classmates. **Edward W. Stevenson** of Birmingham, Ala., continues to fly his plane at age 83. He is vice chairman of both the Alabama Aviation Hall of Fame and the Southern Museum of Flight.

1950: Harry H. Bleecker of San Pedro, Calif., continues working two to three days per week, and

travels, plays golf, and fishes in his free time. In fact, he recently netted a 225lb blue marlin. Bleecker is on his second pace-maker, and says he's looking forward to his 60th reunion in 2010. **Miriam S. Daly** of Albion, Mich., is coordinating more than 11 blood drives a year for the American Red Cross. She has 11 grandchildren.

1952: Timothy D. Baker of Cockeysville, Md., authored a report for the Institute of Medicine on U.S. financing of global health programs. He admits that if he had realized how complex the subject was, he may never have started it! **Bella Schimmel-Desser** of Los Angeles continues teaching at UCLA's psychoanalytic center and graduate center for child development and psychotherapy, as well as in a community clinic and the L.A. Unified School District doing horticulture therapy with learning-disabled children.

1953: Charles F. Carroll Jr., of Concord, N.C., reports that wife Marilyn recently toured Iceland. **Rafael Longo-Cordero** of San Juan, P.R., wishes classmate **Arthur Knight** a speedy recovery. Knight missed the recent 55th reunion due to illness. **1954:** Daniel H. Framm of Potomac, Md., was recognized by the American Academy of Ophthalmology for more than 35 years as an active member. He continues practicing in Vienna, Va., with daughter Lisa F. Sklar. **Charles J. Hammer Jr.**, of Mercer Island, Wash., is looking forward to the 55th reunion in May. **Jean M.C. O'Connor** of Baltimore is working part time as a consultant for the central office of Social Security, doing medical evaluations for disability. She closed her office in June 2007. **Morris Rainess** of Owings Mills, Md., reports that he is still alive—barely! **1955:** Leonard J. Morse of Worcester, Mass., received an

honorary degree from the University of Massachusetts Medical School last June. **Paul G. Mueller** of Pasadena, Md., reports that he has a new great-grandchild. **1956:** Gilbert E. Hurwitz of Bethesda, Md., has retired from the active practice of internal medicine and endocrinology after 46 years. **Mathew H.M. Lee** of New York City, on World Habitat Day at the United Nations on October 8, 2008, presented a paper entitled "Role of Music in Medicine." Lee is a professor in the department of rehabilitation medicine at NYU as well as an adjunct professor of music. He also received a citizen-for-the-humanities award. **Virginia T. Sherr** of Holland, Pa., reports that her youngest son is chief resident in brain surgery at the University of Minnesota. He and his wife have just given birth to Sherr's third grandson, whom she visited in December. **1957:** George A. Lentz Jr., of Severna Park, Md., was recognized for 18 years of service to Mt. Washington Pediatric



Jane & George Lentz, '57

Hospital when its healing garden was named in his honor. The garden is designed to help patients and their families cope with the major stress that accompanies traumatic injury or illness. The dedication ceremony was held on September 23, 2008. **1958:** Harvey L. Friedlander and wife Lynn of Calabasas, Calif., report that India is a wonderful and interesting country. In January they traveled through the country on plane, train, and bus. **Albert F. Heck** of Owings Mills, Md., was reappointed to a four-year term on the Maryland Advisory



Leonard J. Morse, '55 (center)

Council on Heart Disease & Stroke Prevention Programs. He also serves on the public health committee for childhood obesity.

1900s: **1960:** Emanuel H. Silverstein of Baltimore continues to enjoy treating dermatology patients but only in the mornings. **Theodore Zanker** of Cheshire, Conn., is a state representative to the AMA House of Delegates. **1961:** **David Lee Rosen** of San Rafael, Calif., celebrated his 80th birthday by traveling to Australia and New Zealand. He continues volunteering at a free clinic and is an active member of Kaiser Permanente Medical Group's ethics and physician's well being committees. He is grateful to Maryland for providing the opportunity to practice medicine. **1963:** **William A. King** of Sumter, S.C., is working part time and enjoying trips to Pawleys Island. **Janet Mules** of Greenbank, Wash., is enjoying a part-time psychiatry practice. In 2005, she retired from her full-time practice in Alaska and relocated to California, but retirement just didn't suit her. She is now serving an area with a naval air station and is keeping very busy. **1964:** **Henry H. Bohlman**, professor of orthopaedic surgery at Case Western Reserve University School of Medicine in Cleveland, received the 2008 Nicolas Andry Award for lifetime achievements in spine surgery. An endowed faculty position has also been established in his name, recognizing Bohlman's 35 years at the institution. **Albert M. Gordon** of Annapolis, Md., a pediatrician in solo practice at Shipley's Choice Medical Park, has added a pediatrician to his practice after 11 years. He has no plans to retire anytime soon and enjoys vacationing in Naples, Fla. **1965:** **Susan Howard Mather** is a member of the defense task force on sexual assault in military service, which is expected to report back to the U.S. Congress in September 2009. **1966:** **Jay Martin Barrash** and wife Heather of Houston report that their baby is now two years old. **J. M. France** of Ormond Beach, Fla., is teaching medicine full time at Florida State University College of Medicine in Daytona Beach. **Carl J. Orfuss** of Los Angeles announces the birth of Ethan James, his first grandson.

Orfuss continues practicing neurology and looks forward to attending the 45th reunion in 2011. **1968:** **Stanton C. Kessler** of Columbia, S.C., as chief medical examiner for the State of Alaska, was featured in a 48 *Hours Mystery* entitled "When Doctors Kill Doctors," which aired on CBS in October. **Jon M. Valigorsky** of Pittsfield, Mass., retired in June 2008 but continues living in Pittsfield with wife Itelga. Their daughter lives and works in Manhattan, N.Y.

1970s: **1970:** **David H. Berman** of Mill Valley, Calif., is medical director at two convalescent facilities and is spending more time with family since discontinuing his office practice last July. **Philip A. Mackowiak** of Sherwood Forest, Md., is the 2010 recipient of the Nicholas E. Davies Memorial Scholar Award for Scholarly Activities in the Humanities and History of Medicine, presented by the American College of Physicians. **C. B. Marek** of Lutherville, Md., is pursuing life's other goals after retiring in June 2008. **1972:** **William K. Bott** of Pensacola, Fla., returned to active duty with the U.S. Navy and spent six months deployed in Kuwait last year. **Elizabeth R. Brown** of Silver Lake, N.H., retired last year. **Martin S. Rosenthal** of Chevy Chase, Md., received an MPH degree from the Medical College of Wisconsin in May 2008. **Jerald Waldman** of Mission Viejo, Calif., reports that Olivia, youngest of his five daughters, completed a general surgery residency as a physician assistant at Montefiore Hospital in the Bronx, N.Y. Middle daughter Jacqueline is taking leave of absence as a telemetry nurse in Hawaii in order to care for her daughter Madaline. Madaline is the Waldman's first granddaughter. **1973:** **Murray A. Kalish** of Baltimore is president-elect of the Maryland State Medical Society. **1974:** **Thomas C. Doerner** and wife Mila of Los Angeles are proud grandparents of Mila, Charlie, Stella, and Thomas. **David L. Zisow** of Pikesville, Md., presented "Laparoscopic Hysterectomy of the Very Large Uterus" in October 2008 during the 37th Global Congress of Minimally Invasive Gynecology in Las Vegas. Since 2005, he has been developing a program of GYN

minimally invasive surgery at Northwest Hospital Center in Baltimore where a post-graduate fellowship is being structured to help train those who need to acquire these skills. **1975:** **Karl W. Diehn** of Baltimore reports that daughter Megan, age 28, is a retinal photographer and would like to be a nurse practitioner; son Karl, age 25, is a culinary student in the Napa Valley, daughter Kate, age 23, is a first-year medical student at Maryland; and son Kevin, age 20, is a junior at the University of Maryland College Park majoring in engineering and heads Engineers Without Borders, which is currently restoring water to a village in Honduras. **Kenneth Iserson** of Tucson, Ariz., reports that his recent book *Improvised Medicine: Delivering Care with Limited Resources* will be published by Cambridge University Press in 2009. **Edward M. Miller** of Pikesville, Md., reports that daughter Jessica received her master's degree in early childhood education from Towson University, while daughter Robin recently celebrated three years of being cancer free after treatment for breast cancer. **1976:** **Damian F. Birchess** of Glen Burnie, Md., was married on June 14, 2008 to Patricia Centineo. **1977:** **Beverli S. Goldberg** of Catonsville, Md., is semi retired, working 15 hours per week as a teacher/consultant. She has become an American College of Sports Medicine personal trainer and has started a personal training business. **1978:** **Philip Ades** of Shelbourne, Vt., recently authored *Eating Well Healthy Heart Cookbook*. Wife Deborah, daughters Rebecca, age 24 and Anika, age 16, and son Jimmy, age 23 are well. **Jay G. Prenskey** of Camp Hill, Pa., reports that son Colin is a second-year medical student at Mt. Sinai School of Medicine, and daughter Mia will graduate from Bryn Mawr College in May. She plans to pursue an advanced degree in Spanish literature. Prenskey loves his life as a retired surgeon. **Bruce E. Weneck** of Hagerstown, Md., reports that daughter Margot is attending nursing school at Thomas Jefferson University. **1979:** **Max D. Koenigsberg** retired last October as EMS medical director in Chicago after 25 years. **Perry Laverson Wittgrove** of San Diego reports that daughter Carl is a freshman at Van-

derbilt University. **Kristen A. Zarfos** of Deep River, Conn., is director of St. Francis Comprehensive Breast Center at St. Francis Hospital and Medical Center. She practices general, breast, and endocrine surgery.

1980: Mark E. Duke and wife Jennifer of Bainum announce the arrival of Kona, their second. Bainum is running unopposed for a Honolulu City Council seat. **Phuong D. Trinh** of Rockville, Md., reports that after his 23 years in practice, brother **Frank**, '99, may be joining him in Phuong's infectious disease practice. **1982: Phyllis B. Brandchaft** of Kensington, Md., reports that daughter Holley is serving a one-year fellowship with Americore after graduating from Tufts University in May. **Thomas W. Conway** of Newport, Tenn., delivered his 1,000th baby last March at Baptist Hospital. He practices family medicine. **John C. Darrell** married Elizabeth M. Andrews on November 8, 2008. Darrell is director of cardiac and vascular surgery at The Good Samaritan Hospital in Lebanon, Pa. **J. Philip Hall** of Coalport, Pa., is back at work in the Community Health Center after a myocardial infarction and coronary artery bypass graft. **1983: M. Steve Snia-dach** of Englewood, Colo., reports that he and his children enjoyed the lobster mini season in Key Largo, Fla. **1984: Dale R. Meyer** and wife **Joy L.**, '89, of Voorheesville, N.Y., are looking forward to the class of 1984 reunion in spring! **Martin L. Schwartz** of Irondale, Ala., reports that son Justin will graduate from Maryland in May and is planning to specialize in pediatrics. Son Adam received a degree in film production, while son Brandon is pursuing an MPH at the University of Alabama Birmingham. Schwartz is chairman of radiology at St. Vincent's Hospital and director of its musculoskeletal imaging fellowship program. **John P. Serlemitsos** of Crownsville, Md., is providing care for the home bound throughout the Baltimore and Washington metropolitan areas. **1985: Lynne D. Diggs** of Silver Spring, Md., reports that her Kensington practice was designated "Top Doctors" by *Washington-*

nian magazine. **Michael Hallowell** and wife Susan of Bakersfield, Calif., continue bicycling, most recently in Montana and Alberta, Canada. **Thomas B. Johnson** of Exeter, N.H., is a pediatric cardiologist at the Dartmouth Hitchcock Medical Center.

Sharon B. Samuels of Albany, N.Y., has returned to academic practice at Albany Medical Center doing acute-care surgery, trauma, general surgery, and critical care.

1986: Boris W. Kuvshinov II of Williamsburg, N.Y., earned an MBA in health-care administration from Yale University.

Joan Ordman of Owings Mills, Md., is a member of the medical advisory council for Healthways, Inc. **1989: Steven Daviss** of Baltimore serves on the Maryland Medicaid P&T Committee and was elected to be a Maryland Assembly Representative for the American Psychiatric Association. He also received physician-of-the-year honors at the Baltimore Washington Medical Center where he is chairman of the department of psychiatry. Daviss is looking forward to attending the 20th reunion in spring.

Elizabeth Lee Herrera of Houston married Greg Enos on August 8, 2008. **Jean Marie Naples** of West Haverstraw, N.Y., recently returned from her second trip to Ghana, as she continues grant-supported research on schistosomiasis and bladder cancer.

1990: Scott A. Sigman of Andover, Mass., is team physician for the U.S. Olympic Ski Jump Team.

1992: Joseph C. Hsu and **Sanra Takai**, '80, of Takai, Hoover, Hsu, and Associates, a pediatric group in Germantown, Md., welcomed **Jayne Weiner**, '99, as a partner in their practice. **Caroline D. Sherbourne** of Lafayette, Calif., is a radiologist with The Permanente Medical Group. Twin sons Dillon and Preston recently turned one and son Trevor will soon be three. **1993: Ricardo Cook** of Sandy Spring, Md., has sons ages six and four, and a daughter age one.

1994: George Porter, PhD., and wife **Mary**, '91, moved to Pittsfield, N.Y., and work at the Golisano Children's Hospital at the University of Rochester. George's position is in pediatric cardiology

1995: Susan Boyd and husband Gaston of Baltimore are expecting their first child in March. **Sanford Katz** of Shreveport, La., reports that he's very happy to be a doctor and not an investment banker, mortgage broker, or stock broker. **Mitesh Kothari**

of Hagerstown, Md., reports that his three sons—Kendall, age eight; Jack, age six; and Ryan, age two—are all well. Kothari invites classmates to visit when passing through Hagerstown. **Scott Winiecki** of Churchville, Md., reports that he, wife Jennifer, and 18-month-old Lexi vacationed recently in Italy. **1996: Christian Bounds** and wife Marybeth of Salisbury, Md., recently celebrated their 15th wedding anniversary.

Daughters Catherine is in second grade and Elizabeth is in kindergarten. Son Garrett is two-years old. They hope classmates are well and look forward to seeing everyone at the next reunion. **1998: Thomas and Erika Kenney** of Lakewood, Colo., report that daughter Claire is in kindergarten and son Grant is three-years old. Tom is in private oncology practice and Erika works part time in a private family practice. **Margaret E. McCusker** and husband **Tin Way** of Sacramento, Calif., welcomed son Matthew on September 11, 2008. Their older son Daniel is two-years old. **Stasia Reynolds**

of Baltimore is a part-time internist at Johns Hopkins Bayview. Husband Patrick is deputy counsel at NSA, while son Conor, age 13, attends Loyola Blakefield, and sons Emmet and Owen, ages seven, attend St. Pius X. **1999: Jennifer W. McCabe** of York, Pa., is working full time in an outpatient practice. She and husband Scott have three children: Gavin, age seven; Ryan, age five; and Megan, age two. **Thomas P. McIntyre** of Brooklyn, N.Y., is a general surgeon at Kings County Hospital and in central Haiti. **Catherine Nelson** and husband Todd of Belmont, Calif., report that son Sam is two-years old, and they are again expecting. **Dionisio Rubi** and wife Melissa of Bridgeport, W.Va., have two children: Sofia, age three; and Stella, who is nearly one. They were married in 2002. **Maj. Mallory Williams** is assistant professor of surgery and associate director of trauma and critical care at Louisiana State University in

Shreveport. Since December, he has been serving in Operation Iraqi Freedom as an Army combat surgeon.

2000: Sharon E. Henderson of Santa Rosa, Calif.,

reports the birth of Ella Bartolomei, their third, on August 28, 2008. **2001:** Allison R. Boester of New York City reports that son Dylan was born on October 3, 2008.

♦ **Darren Feldman** of New York City is attending on the genitourinary oncology service at Memorial Sloan-Kettering Cancer Center. ♦ **Kathy J. Weishaar** of Westminster, Md., works as a hospitalist. She and husband Bob are expecting their first child.

2002: Laura K. Ferris and husband Robert are living in Pittsburgh with children Rachel, Anna, and Adam. Ferris is an assistant professor of dermatology at the University of Pittsburgh Medical Center. ♦ **Eve Fields** of Vienna, Va., reports the birth of Theodore "Teddy," their second, in February 2008. ♦

Eric Hodgson is a maternal-fetal medicine fellow at Yale, where he received residency training in OB/GYN. He spent the year after medical school serving as president of AMSA. ♦ **Daniel Kauffman** of Bethesda, Md., works in a group practice specializing

in adult psychiatry. **Elissa C. Thompson** of Chevy Chase, Md., was featured in the October 2007 issue of *Redbook* magazine. She practices cardiology following completion of a fellowship at Georgetown/Washington Hospital Center. Daughter Caroline is seven years old and has her father Jeff as a soccer coach, while son Jack is four and enjoying nursery school. **2004:** Antonette Brigidi married Ryan Frasch in Cape May, N.J., last September. The couple lives in Devon, Pa. ♦ **Allison Hobelmann** of Baltimore reports that husband **Todd**, '03, works in the department of anesthesiology at Good Samaritan Hospital, while she practices ER at Union Memorial Hospital. Both are doing well and looking forward to attending the fifth reunion in spring. ♦ **Christopher Hydorn** of Columbia, S.C., welcomes the birth of Elizabeth Grace on June 16, 2008. Hydorn will complete a pediatric orthopaedic surgery fellowship in 2010 at the Children's Hospital of Philadelphia. ♦ **Katie Gamble Marvin** reports that she has returned to Vermont where she performs the full spectrum of family medicine with OB—including C-sections. This follows an amazing obstetrics fellowship in Seattle where she, husband Ira, and dog Misty lived

on a boat. ♦ **Robin Veidt** of New York City married Ted Manson in May 2008. He is a former orthopaedic shock trauma fellow at Maryland. **2005:** Michelle A. Folsom of Clinton, Md., practices family medicine with a group in Prince Frederick, following completion of her residency at Thomas Jefferson University. ♦ **Anne Marie Kelly** and husband Ian Carr of Centerville, Mass recently welcomed the birth of Tricia, who joins Dougie, age two. Kelly practices internal medicine in Cape Cod. ♦ **Jennifer A. Roth** is enjoying a sports medicine fellowship at the Mayo Clinic in Jacksonville, Fla., following completion of a family medicine residency at Christiana Care in Wilmington, Del., with classmate **Sarah Mullins**. **2006:** Andrea Ceccarelli married Justin Cuniff—a Maryland law school alumnus. They are living in Canton, Md., until Andrea completes family medicine training this spring. ♦ **Jonathan King** and **Daniela Morato** are living in Los Angeles after their recent engagement and plan to wed in spring. ♦ **David Lundy** and wife Shannon of Philadelphia welcomed baby Flannery Colleen on May 29, 2008. 🏠

Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Medicine Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

Morris W. Steinberg, '38

Baltimore

November 8, 2008

Dr. Steinberg received a degree from Maryland's pharmacy school prior to studying medicine. He interned at St. Joseph's Hospital in Lancaster, Pa., and received residency training at St. Elizabeth's Hospital in Utica, N.Y. Steinberg returned to Baltimore and began a family practice which was interrupted by World War II. As a battlefield surgeon, he was awarded the Bronze Star for heroism at the Battle of the Bulge. He then returned to Lansdowne and maintained his practice for several decades. Steinberg is survived by wife Mildred and two daughters.

Dr. Albert A. Kurland, '40

Baltimore

December 7, 2008

Sinai Hospital in Baltimore was the site of Dr. Kurland's internship, before being drafted into the U.S. Army in 1941. He served as an assistant battalion surgeon with Gen. George Patton's Third Army in Tunisia and Italy and was recipient of the Legion of Merit. Kurland was discharged in 1946 with the rank of captain. He returned to Baltimore and completed residency training in psychiatry at Spring Grove State Hospital. Appointments included director of medical research at Spring Grove and founding director of the Maryland Psychiatric Research Center. Kurland was an expert on LSD therapy and contended that, in concert with intensive psychotherapy, the drug was effective in the treatment of alcoholism. After a brief retirement in the 1980s, he joined the staff at Taylor Manor and resumed his research until retiring again in 2002. Kurland enjoyed theater and attending concerts of the Baltimore Symphony Orchestra. He is survived by wife Hannah, one son, one daughter, seven grandchildren, and two great-grandchildren.

Stanley E. Schwartz, '41

Merritt Island, Fla.

August 25, 2008

At medical school graduation, Dr. Schwartz was commissioned in the U.S. Army Reserve where he would serve for 21 years. He commanded a number of hospital units including the 307th General Hospital, NYC, for three years, retiring with the rank of colonel. He received all of his training—including a fellowship in surgery—at Queens General Hospital in Jamaica, N.Y. Schwartz relocated to Miami Beach, Florida, in 1952 and for ten years maintained a private surgical practice. He returned to New York in 1962 to hold several faculty appointments including assistant clinical professor of surgery at Albert Einstein College of Medicine and later assistant professor of clinical surgery at Mount Sinai School of Medicine. In 1986, he returned to Florida and opened a private surgical practice on Merritt Island and later served as a civilian contract surgeon at Patrick Air Force Base Hospital. He and wife Rosalind had four daughters and four grandchildren. Schwartz later married Phyllis Burns.

Loy M. Zimmerman, '42

Catonsville, Md.

October 8, 2008

After an internship at Maryland General Hospital, Dr. Zimmerman served as a captain in the Medical Corps of the 4th Armored Division, 3rd U.S. Army in the European Theater. He participated in the relief of Bastogne and was one of the first physicians to triage survivors at the liberated Dachau Prison Camp. Zimmerman received numerous commendations for his military service including the Bronze Star. Upon his military discharge, he practiced geriatrics and family medicine in Baltimore for the next 40 years, providing support to several nursing homes as well as the Armed Forces Induction Center at Fort Meade. Zimmerman enjoyed restoring and driving antique automobiles, and his 1918 Model T Ford and 1908 Sears and Roebuck Runabout appeared in local parades and antique auto

shows. He is survived by wife Helen, four sons, one daughter, seven grandchildren and one great-grandchild.

William J. Hunt, '43M

Colfax, N.C.

November 26, 2008

Upon graduation, Dr. Hunt received one year of training at Baltimore City Hospital before serving in the U.S. Navy during World War II. He was discharged from the military in 1946 and returned to City Hospital for additional training from 1946 to 1947. Hunt moved to High Point, N.C., in 1948 and opened a private internal medicine practice which he maintained until retirement in 1983. He is survived by wife Sara, two daughters, and two grandchildren.

Earl L. Royer, '43M

Cincinnati

November 16, 2008

Dr. Royer interned and received residency training in surgery at Bon Secours Hospital in Baltimore. From 1947 until 1950, he was assistant medical examiner for Baltimore City. He was called to military duty during the Korean Conflict where he rose to chief of surgery at the 8076 MASH. Royer returned to Salisbury where he served on the surgical staff at Peninsula General Hospital from 1954 until retirement in June 1985. During this time he also served as deputy medical examiner for Wicomico County. Royer enjoyed boating, photography, reading, golf, hunting, and fishing. He and wife Beverly had two sons and two daughters, and they moved to Cincinnati after retirement.

James H. Feaster Jr., '44

Oakland, Md.

September 11, 2008

Charleston General Hospital in West Virginia was the site of Dr. Feaster's nine-month rotating internship, followed by a nine-month rotating residency in surgery. He then entered the U.S. Army, spending six weeks at Fort Sam Houston in San Antonio before being assigned to the 130th Station Hospi-

in memoriam

tal in Heidelberg, Germany. After 18 months he was discharged with the rank of captain. Afterwards Feaster received additional surgical training at Herbert J. Thomas Memorial Hospital in Charleston before moving to Oakland in 1948 where he began a general practice of medicine. In addition to his private practice, Feaster served in all positions on the staff of Garrett Memorial Hospital as well as on its board of governors. He also served as Garrett County deputy medical examiner for 28 years. Feaster retired in 1987. He owned and operated a Christmas tree farm, was a charter member of the Garrett County Christmas Tree Growers Association, and was a member of the Maryland and National Christmas Tree Growers Association. Feaster served on the board of directors of Garrett National Bank and from 1970 until 1990 was chairman of the board. He is survived by wife Doris, one son, twin daughters, seven grandchildren, and eight great-grandchildren.

W. Alfred Gakenheimer, '47
Bradenton, Fla.
September 15, 2008

Dr. Gakenheimer served in the U.S. Navy during World War II, before earning his medical degree and working as a general practitioner in Baltimore and living in Towson. He also served as an instructor in medicine at Maryland. Gakenheimer is survived by one daughter and two grandchildren, and he was preceded in death by wife Loretta.

Richard L. Hobart Jr., '48
Powell, Tenn.
October 28, 2008

Dr. Hobart was a U.S. Army veteran of World War II and Korea. He trained in internal medicine at the Central Dispensary and Emergency Hospital in Washington, DC, and in 1951 established a private practice in Fountain City, Tennessee, which he operated for 34 years. Appointments included chief of staff at St. Mary's Hospital where he also taught nursing students, president of the Knoxville Academy of medicine, and instructor at the University of Tennessee Medical Center. He enjoyed photography,

astronomy, and woodworking, and in retirement Hobart crafted guitars, dulcimers, and telescopes. He also served on the vestry of his church. He is survived by wife Helen, one son, one daughter, and three grandchildren.

James L. "Jimmie" Rhyne, '48
Raleigh, N.C.
October 31, 2008

The University of South Carolina, Charleston, was the site of Dr. Rhyne's internship. This was followed by pediatric residency training at Johns Hopkins Hospital and Bowman Gray School of Medicine in Winston-Salem, N.C. Rhyne then traveled to Emory University in Atlanta for fellowship training, and he later received an MPH at the University of North Carolina Chapel Hill School of Public Health. He worked as chief of maternal and child health with the Baltimore City Health Department, before moving to Raleigh, N.C., to serve in this same capacity. Rhyne enjoyed golf and, in celebration of his 75th birthday in 2001, traveled to New Zealand and Australia. He is survived by wife Nancy and five children.

John H. Panzarella, '49
Phoenix, Ariz.
August 23, 2008

Dr. Panzarella practiced family medicine in Queens, N.Y., for more than 25 years. He relocated to Phoenix in 1979 and practiced with Cigna Healthcare and then Maricopa County Long Term Care. He recently retired. Panzarella enjoyed music, reading, and travel. He is survived by wife Dorothy, four children, and 11 grandchildren.

William O. Sires, '50
Fairfield, Conn.
September 13, 2007

John F. Hartman, '54
Baltimore
December 7, 2008

Dr. Hartman's specialty was internal medicine. He served as medical director of Jenkins Memorial Home, director of medical education at Bon Secours Hospital,

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and was a trustee officer of the Knights of Columbus. Hartman served on the staffs of Mercy, Bon Secours, Good Samaritan, and Harbor hospitals. Since 1944, he has been a licensed chief mate in the United States Merchant Marine Service, and 23 times he crossed the Atlantic Ocean. Hartman was a member of the Elm Society of the John Beale Davidge Alliance, established for major donors to the medical school.

Milton Schlenoff, '54
Baltimore
September 28, 2008

Baltimore's Lutheran Hospital was the site of Dr. Schlenoff's residency training in internal medicine. He established a practice in Woodlawn but in 1970 moved to the Reisterstown Shopping Center. In addition to internal and family medicine, Schlenoff added sports medicine to his practice before retiring in 1985. He enjoyed running, playing tennis, and was a martial arts expert. Schlenoff was an accomplished, self-taught musician who enjoyed playing jazz and klezmer. He was a dog lover and enjoyed reading. During the winter he and wife Selma lived in their second home in Boynton Beach, Florida. In addition to his wife, survivors include two daughters and four grandchildren.

David A. Cope, '58
Boothwyn, Pa.
October 13, 2008

Upon graduation, Dr. Cope interned and served one year of a pathology residency at Reading Hospital. He returned to Maryland in 1960 for a four-year ENT residency, followed by two years in the U.S. Army stationed in Frankfurt, Germany. In 1966, Cope was a founding partner of Berks ENT Surgical Associates where he remained until retirement in 1992. He was a member of

the National Railway Historical Society and enjoyed golf, handball, fishing, and playing cards. Cope is survived by wife Mary Ann, four children and six grandchildren.

Damon F. Mills, '60
Palos Verdes Estates, Calif.
September 17, 2008

Dr. Mills served two years in the U.S. Navy and completed residency training in radiology at Cincinnati General Hospital. He then received fellowship training at the University of Southern California. For 40 years he remained in practice as a radiologist at Queen of the Valley Hospital in West Covina. Mills was a member of John Beale Davidge Alliance Silver Circle, the school's society for major donors. He enjoyed travel, jazz music, and riding a bicycle. Mills is survived by wife Marcia, one son, two daughters, and six grandchildren.

Barry M. Cohen, '64
Hagerstown, Md.
October 16, 2008

David J. Gillis, '65
Lutherville, Md.
October 2, 2008

Dr. Gillis interned at Mercy Hospital in Baltimore and received residency training in urology at Georgetown University Hospital in Washington, D.C. He operated a practice on York Road north of Towson until retirement in 1988. Gillis was on the staff of St. Joseph Medical Center, Mercy Medical Center, and Johns Hopkins Hospital, and for a number of years he served as an instructor in urology at the medical school of Johns Hopkins. He collected American Flyer model electric trains and was recognized as a national expert on the subject. Gillis enjoyed traveling by train, and visiting railroad museums and Civil War battlefields. He is survived by wife Katherine, two sons, and one daughter. A second daughter died in 1970.

Charles E. DeFelice, '67
Cape Girardeau, Mo.
November 7, 2008

Maryland General Hospital was the site of Dr. DeFelice's internship, followed by residency training in internal medicine and a cardiology fellowship at Maryland. DeFelice joined Maryland's faculty from 1972 to 1979, before moving to Cape Girardeau where he established a private practice and helped bring open heart surgery to the community. DeFelice is survived by wife Lu, one daughter, one son, four grandchildren, two step-sons and four step-grandchildren. He was preceded in death by son Scott.


Michael D. Talbert, '73
Visalia, Calif.
October 23, 2008

Dr. Talbert practiced occupational and family medicine in Visalia, California. His marriage to wife Robin ended in divorce.

Douglas F. Bowman Jr., '78
Smethport, Pa.
November 25, 2008

Upon completion of training in internal medicine, Dr. Bowman practiced general medicine in Smethport, Pa. In 1997, he opened Bowman Health Center, a rural health clinic, and was frequently an invited speaker at annual meeting of the National Rural Health Clinics Conference on issues such as creating an effective quality improvement program for rural health clinics. He later opened ARP Healthcare Consulting and became board certified with a sub-specialty in risk management. He is survived by wife Barbara.

Amy R. Stine, '85
Pittsburgh, Pa.
October 11, 2008

Dr. Stine interned and received training in family medicine at St. Margaret Memorial Hospital in Pittsburgh. She worked at the University of Pittsburgh Medical Center Rehabilitation Hospital until 2005. In 2000, she opened a private practice in holistic family medicine. Stine enjoyed dancing, and she was an avid rock climber and member of the Explorer's Club of Pittsburgh. She is survived by husband William Brose. Her brother, Oscar C. Stine, PhD, is an associate professor at Maryland. 

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134th Medical Alumni Association Reunion May 1-3, 2009

Friday, May 1

8:30-10:30 am	Open House, Check-in & Continental Breakfast
9:00-9:45 am	Financial, Retirement, & Estate Planning
10:00-11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am-1:15 pm	134th MAA Luncheon & Business Meeting, Westminster Hall
1:30-3:00 pm	16th Historical Clinicopathological Conference
1:30-3:30 pm	Afternoon Check-in, Davidge Hall
3:30-4:30 pm	School of Medicine Tour
6:30-9:30 pm	The MAA Crab Feast, Baltimore Museum of Industry

Saturday, May 2

8:00 am-1:30 pm	Open House & Check-In
8:30-10:00 am	Continental Breakfast, Davidge Hall
9:00 am-1:00 pm	Excursion to U.S. Naval Academy, Annapolis, Md
10:00-11:00 am	Campus Walking Tour
11:00-11:45 am	Restoring Davidge Hall: An Update
11:30 am-2:00 pm	Complimentary Picnic, Davidge Hall
1:00-1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00-2:30 pm	Baltimore City Land & Sea Tour I
Afternoon/Evening	Class Reunions (years ending in "4" and "9")

Sunday, May 3

10:00 am-1:00 pm
Brunch with the Dean,
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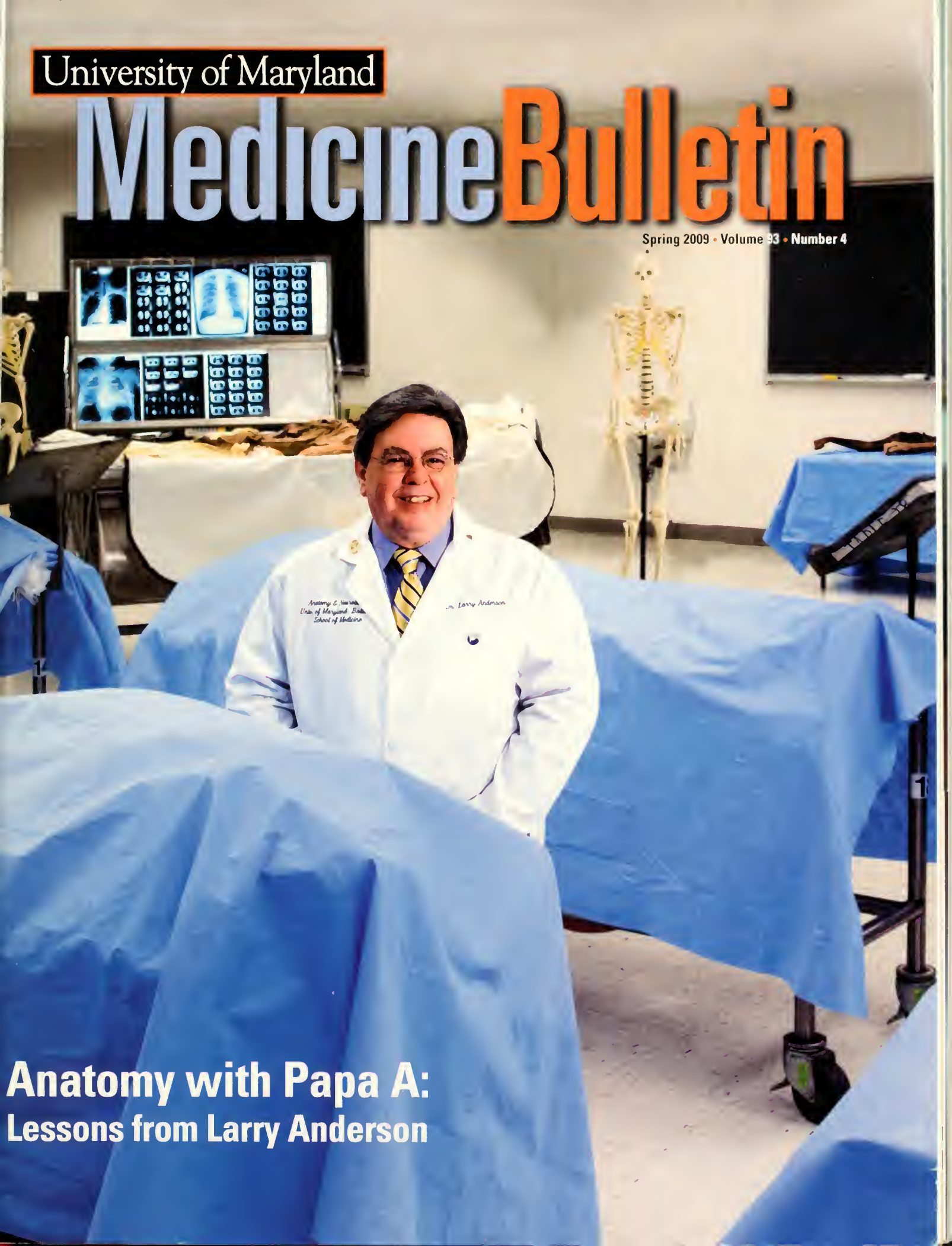
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Spring 2009 • Volume 93 • Number 4



**Anatomy with Papa A:
Lessons from Larry Anderson**



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MedicineBulletin

University of Maryland Medical Alumni Association & School of Medicine



Anatomy with Papa A: Lessons from Larry Anderson

Despite an ever-changing curriculum, it will please many alumni to know that anatomy continues to play a prominent role in a Maryland medical education. Since the late 1970s, the course has been directed by Larry Anderson, PhD, whom students refer to as "Papa A."

On the cover: Larry Anderson, PhD; Photo by Richard Lippenholz



Trailblazing Trauma Research: The Organized Research Center for Trauma & Anesthesiology Research

Maryland boasts of an extensive history of collaborative research between the specialties of trauma and anesthesiology. In 2007, the school formally tied the knot by designating an organized research center for trauma and anesthesiology research. Its major thrust has been to better understand brain injury.



Alumnus Profile: Morton I. Rapoport, '60

Reflections on Privatizing Maryland's Hospital

Twenty-five years ago this month, the Maryland General Assembly approved legislation privatizing University Hospital. Its CEO, Morton I. Rapoport, '60, who led the enterprise for the first 19 years, recalls some of the ups and downs of his tenure.



Alumna Profile: Dorothy Hsiao, '75

Three's Company

Dorothy Hsiao admits to a high degree of uncertainty regarding the selection of a career path while working toward her undergraduate degree. She spent a year doing immunology research before medical school. The amusing part of this story is that her three sons experienced similar internal struggles, and now all three are attending Maryland—at the same time!

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It has been over a year now that the *Bulletin* has had its new look and its larger audience. I sincerely hope that you have enjoyed the expanded coverage of our clinical, research and education programs and additional features on our outstanding faculty and esteemed alumni.

Sometimes we in academic medicine get so caught up in the clinical and research missions that the real reason we are here—to educate the next generation of scientists and physicians—gets put on the back burner. Our education mission is the backbone of this medical school, and the faculty to whom we entrust the teaching of our medical students are the mainstay of this outstanding institution.

In this issue, we feature one of our most popular teachers, **Larry Anderson, PhD**, professor of anatomy and neurobiology. Dr. Anderson teaches the first-year anatomy course and consistently receives exceptional ratings by his students, garnering numerous teaching awards in his 30 years here at the University of Maryland School of Medicine. If you weren't fortunate enough to take structure and development from Dr. Anderson, after reading his profile you will see why he's a perennial favorite at the medical school.

Morton I. Rapoport, '60, profiled in these pages, is an icon at the University of Maryland School of Medicine and the University of Maryland Medical System. Many of you older alumni will remember him as chief of medical service at the VA Medical Center or as senior associate dean of the medical school. More recent graduates will remember him as the first president and CEO of the University of Maryland Medical System. The medical system celebrates its 25th anniversary this year, and Dr. Rapoport is responsible for much of its success over this past quarter century.

We also profile an alumnus whose three sons are currently all in medical school at the University of Maryland. **Dorothy Hsiao, '75**, a pediatrician with a private practice in Bethesda, Md., never thought her boys would go to medical school, much less all at her alma mater, all at the same time. She could not be more proud of all three of them, and I am so pleased that our alumni have such fond memories of their time here and feel so positive about the education they received at Maryland.

Our medical school recently established its seventh organized research center (ORC). Our new center for trauma and anesthesiology research will become a world-class, multi-



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs, University of Maryland
John Z. and Akiko K. Bowers Distinguished Professor and Dean,
School of Medicine

The medical system celebrates its 25th anniversary this year, and Dr. Rapoport is responsible for much of its success over this past quarter century.

disciplinary research and educational center focusing on brain injuries, critical care and organ support, resuscitation, surgical outcomes, patient safety, and injury prevention. This new ORC is led on an interim basis by **Thomas M. Scalea, MD**, professor of surgery, director of the program in trauma, and physician-in-chief at the R Adams Cowley Shock Trauma Center, and **Peter Rock, MD, MBA**, professor and chair of the department of anesthesiology. It is believed to be the first research center in the nation dedicated exclusively to the study of trauma, its complications and prevention. You can read more in these pages about the opportunities this collaborative effort will bring for faculty and researchers across our campus who have common academic interests in trauma and surgical outcomes.

I very much enjoy meeting and interacting with our alumni. I was pleased to be able to spend time recently with **Irving Taylor, '43M**, who just celebrated his 90th birthday. One of our most stalwart benefactors, Dr. Taylor is the leading donor of the Taylor Lecture Hall (formerly known as the Freshman Lecture Hall on the ground floor of the Bressler Research Building) and a world-famous psychiatrist. In May, Dr. Taylor will receive both the Honor Award & Gold Key and Distinguished Service Award from the Medical Alumni Association, becoming the first alumnus to win both awards at the same time.

I spent a wonderful evening with Dr. Taylor in February at the School of Medicine's 2nd annual *Celebrating Diversity* dinner. This annual event, attended by nearly 200 alumni, friends, students and prospective students, is held to raise awareness of our diversity scholars program. Our featured speaker was Joan Reede, MD, MPH, MS, dean for diversity and community partnership and director of the minority faculty development program at Harvard Medical School. Dr. Reede spoke about the positive benefits of a diverse student body.

As I enter my third year as dean and have the opportunity to know more alumni, I continue to be gratified to see how engaged and supportive our alumni are. I look forward to seeing many of you this May at the events scheduled for our 134th alumni reunion. Until then, in the relentless pursuit of excellence, I am

Sincerely,



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs, University of Maryland
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Our new center for trauma and anesthesiology research will become a world-class, multi-disciplinary research and educational center focusing on brain injuries, critical care and organ support, resuscitation, surgical outcomes, patient safety, and injury prevention.

EVENTS

Students, Faculty Descend on Legislators in Annapolis



Laura Caputo, '11, and Hadas Skupsky, '10, visit with delegate James King of Anne Arundel County, who serves on the economic matters committee

Students, faculty, and administrators traveled to Annapolis on January 15 to speak with members of the Maryland General Assembly about issues important to the medical school. In face-to-face meetings with lawmakers, students discussed funding levels, the impact of physician shortages, and the need for new research facilities.

"Everybody seemed eager to talk with us and get our opinions," said Litty Smelter, '09. Smelter and her fellow students urged the lawmakers to maintain current funding levels

for the education of health professionals. Adequate funding is essential to preserve quality medical care, particularly for underserved populations. E. Albert Reece, MD, PhD, MBA, dean of the medical school, reinforced that message in his meetings with legislative leaders.

Legislators were honest—often brutally so—about the bleak economic outlook for the state, as they faced balancing a budget with a \$2 billion deficit. Yet most lawmakers remained receptive to what the students had to say.

The group was invited to the Maryland House and Senate chambers, where the school was formally recognized. And Dean Reece was honored with a proclamation for his service as chair of the Association of American Medical Colleges Council of Deans.

EVENTS

Portrait Honors Dermatology's Burnett



Burnett and wife Kathleen at unveiling

The department of dermatology honored Joseph W. Burnett, MD, last November, unveiling a painting in his likeness. Burnett served as interim chair of the department from 1977 to 2003. The unveiling, attended by some 40 faculty and alumni, took place at the home of Anthony Gaspari, MD, current chairman of the department. Faculty, alumni,

and former residents stepped forward with generous donations to underwrite the work which is now proudly displayed in the department's conference room.

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Common Gene Variant for High Blood Pressure Discovered

Medical school researchers have identified a common gene variant that appears to influence people's risk of developing high blood pressure, according to the results of a

study published online Dec. 29, 2008 in the *Proceedings of the National Academy of Sciences* (PNAS).

The STK39 gene is the first hypertension susceptibility gene to be uncovered through a new technique called a genome-wide association study and confirmed by data from several independent studies. Located on chromosome 2, the gene produces a protein that helps to regulate how the kidneys process salt, which plays a key role in determining blood pressure.

"This discovery has great potential for enhancing our ability to tailor treatments for the individual, and to more effectively manage patients with hypertension. We hope that it will lead to new therapies to combat this serious public health problem worldwide," says the senior author, **Yen-Pei Christy Chang, PhD**, an assistant professor of medicine and of epidemiology and preventive medicine.

But, Chang admits, more research is needed. "Hypertension is a very complex condition, with numerous other genetic, environmental and lifestyle factors involved. The STK39 gene is only one important piece of the puzzle," she says. "We want to determine how people with different variations of this gene respond to diuretics and other medications, or to lifestyle changes, such as reducing the amount of salt in their diet. This information might help us discover the most effective way to control an individual patient's blood pressure."

Scientists believe multiple genes are involved in the most common form—essential hypertension. But because so many factors affect blood pressure, includ-



Yen-Pei Christy Chang, PhD

ing diet, exercise and stress levels, it has been difficult to pinpoint a specific gene or group of genes, according to the lead author, **Ying Wang, PhD**, a researcher at the school.


The link between the STK39 gene and blood pressure was identified by analyzing the DNA of 542 members of the Old Order Amish community in Lancaster County, Pa., scanning approximately 100,000 genetic markers across the entire genome for single nucleotide polymorphisms associated with systolic and diastolic blood pressure. They found

strong association "signals" with common variants of the serine/threonine kinase gene, or STK39, and confirmed their findings in another group of Amish people and in four other groups of Caucasians in the United States and Europe.

People with one particular variant showed slight increases in blood pressure compared to those with a more common form of the gene and were more likely to develop hypertension, researchers found. It is estimated that about 20 percent of Caucasians in the general population have this variant of the STK39 gene.

HYPERTENSION IS A VERY COMPLEX CONDITION, WITH NUMEROUS OTHER GENETIC, ENVIRONMENTAL AND LIFESTYLE FACTORS INVOLVED.

"With this new 'scanning' approach—the genome-wide association study—we are able to uncover genes that have previously eluded us. The field of complex disease genetics has undergone a revolution in terms of discovering new genes and understanding the genetic basis of common adult-onset diseases," says co-author **Alan R. Shuldiner, MD**, professor of medicine; head of the division of endocrinology, diabetes and nutrition; and director of the program in genetics and genomic medicine at the school.

The research was funded by the National Institutes of Health. 

Transitions

Appointments

Robert A. Chrencik has been appointed president and chief executive officer of the University of Maryland Medical System (UMMS). Chrencik has worked for UMMS for 25 years and had been serving as interim president since the August retirement of **Edmond F. Notebaert**. He oversees the network of nine academic, community, and specialty hospitals throughout the state.

Chrencik came to UMMS in 1983 as the director of financial planning. He was promoted to vice president of finance and systems and chief financial officer in 1987 and later became senior vice president of finance and systems in 1989 until being named executive vice president and chief financial officer in 1999.

As the third-largest private employer in the Baltimore metro area, UMMS generates nearly \$3.5 billion in economic activity in Maryland and has \$2.1 billion of operating revenues. It employs 14,800 people, has more than 1,700 licensed beds with 83,000 annual admissions.

Curt I. Civin, MD, a pioneer in cancer research who is known for developing a way to isolate stem cells from other blood cells, was named professor of pediatrics in the division of hematology/oncology, as well as associate dean for research and the founding director of the new University of Maryland School of Medicine Center for Stem Cell Biology and Regenerative Medicine.

Civin comes to Maryland from the Johns Hopkins University School of Medicine, where he served as a faculty member since 1979. He leads projects totaling \$21.5 million in extramural research funding and brings to the medical school his entire research team. This includes 15 postdoctoral fellows, graduate students, and research technicians.

Civin became well known when he earned the 1999 National Inventor of the Year Award for his groundbreaking scientific discovery in 1984 of a method for isolating stem cells from other blood cells. This proved to be a critical step in studying them and transplanting these cells into patients. Discoveries from his laboratory are used today in both clinical bone marrow stem-cell transplantation and leukemia diagnosis. Civin's studies now focus on the genes expressed in stem cells.

Departure

Robert A. Barish, MD, vice dean for clinical affairs and professor of emergency medicine, has become chancellor

of the Louisiana State University Health Science Center.

A 1979 graduate of New York Medical College, Barish interrupted his internal medicine residency at St. Vincent's Hospital in New York for one year, traveling to Cambodia and Somalia to treat malaria victims. Upon his return, he completed additional training in emergency medicine and in 1985 was named head of Maryland's emergency medicine program. Barish served as chief of emergency medicine until 1996, one year after being named associate dean.

In addition to his medical degree, Barish has an MBA from Loyola College. He is a former lieutenant colonel and flight surgeon in the Maryland Air National Guard, and in 1992 was among a select group of candidates invited to become a NASA astronaut.

Barish is no stranger to Louisiana, as he led a medical regiment providing relief services to more than 6,000 Hurricane Katrina victims in 2005. The Louisiana State University Health Sciences Center at Shreveport includes three professional schools, a university teaching hospital as well as the E.A. Conway Medical Center in Monroe and the Huey P. Long Medical Center in Pineville.

Retirement

Barry S. Handwerger, '68, recently retired as professor in the department of medicine. He served as head of the division of rheumatology & clinical immunology from 1985 to 1995 and was associate chair for research from 1995 to 2001.

Upon graduation in 1968, Handwerger interned and received residency training at Mt. Sinai Hospital in New York City. He spent two years with the U.S. Public Health Service in Baltimore, and then four years at NIH with the gerontology research center and the immunology branch of the National Cancer Institute. From 1974 until his appointment at Maryland in 1985, he held several positions at the University of Minnesota School of Medicine and the Mayo Clinic, including head of Mayo's rheumatology research unit.

Maryland's division of rheumatology & clinical immunology honored Handwerger during its Leon Kochman, MD, Symposium in Rheumatology held in Davidge Hall on November 21. 🏛️



Marc Hochberg, MD, MPH, Barry S. Handwerger, '68, and Frank M. Calia, MD, MACP

An Ultimate Remedy for the Common Cold?

Maryland scientists have begun to solve some of the mysteries of the common cold by putting together the pieces of the genetic codes for all the known strains of the human rhinovirus. In collaboration with colleagues at the University of Wisconsin-Madison, researchers have completed the genomic sequences of the viruses and assembled them into a "family tree," showing how the viruses are related, with their commonalities and differences.

Researchers say this work provides a powerful tool that may lead to the development of the first effective treatments for the common cold. "There has been no success in developing effective drugs to cure the common cold, which we believe is due to incomplete information about the genetic composition of all these strains," says the study's senior author, **Stephen B. Liggett, MD**, professor of medicine and physiology and director of Maryland's cardiopulmonary genomics program.

"We generally think of colds as a nuisance, but they can be debilitating in the very young and in older individuals, and can trigger asthma attacks at any age. Also, recent studies indicate that early rhinovirus infection in children can program their immune system to develop asthma by adolescence," says Liggett, who is a pulmonologist and molecular geneticist.

The researchers found that human rhinoviruses are organized into about 15 small groups that come from distant ancestors. The discovery of these multiple groups explains why a "one drug fits all" approach for anti-viral agents does not work. But, says Liggett, "Perhaps several anti-viral drugs could be developed, targeted to specific genetic regions of certain groups. The choice of which drug to prescribe would be based on the genetic characteristics of a patient's rhinovirus infection."

Liggett adds that while anti-viral drugs seem to be the most likely to succeed, "the data gathered from these full genome sequences gives us an opportunity to reconsider vaccines as a possibility, particularly as we gather multiple-patient samples and sequence the entire

genomes, to see how frequently they mutate during a cold season. That work is underway now."

The researchers also found that the human rhinovirus skips a step when it makes its protein product, a shortcut that probably speeds up its ability to make a person feel sick soon after infection. "This is a new insight," says co-investigator **Claire M.**

Fraser-Liggett, PhD, director of the institute for genome sciences and professor of medicine and microbiology. "We would not have had any sort of intuition about this had it not been revealed through genome analysis. Information that comes from this discovery might present a completely different approach in terms of therapy."

The analysis shows that some human rhinoviruses result from the exchange of genetic material between two separate strains of the virus that infect the same person. Such a swap, known as recombination, was previously not thought possible in human rhinovirus. During cold season, when many different strains of rhinovirus may be causing infections, recombination could rapidly produce new strains.

Multiple mutations (as many as 800) were evident in virus samples taken recently from patients with colds, compared to older rhinovirus reference strains. Some viruses mutate by making slight changes in certain proteins to avoid being destroyed by antibodies from a person's immune system. "Mutations were found in every area of the genome," says Liggett.

The study's lead author, **Ann C. Palmenberg, PhD**, professor of biochemistry and chair of the institute for molecular virology at the University of Wisconsin-Madison, notes, "As we begin to accumulate additional samples from a large number of patients, it is likely that hotspots for mutation or recombination will become apparent, and other regions resistant to mutational change may emerge. This will provide clues as to how flexible the virus is as it responds to the human environment, important hints if you are designing new therapeutics." The study was released on the online version of the journal *Science* (Science Express) on February 12. 🏠



Stephen B. Liggett, MD

Anatomy with Papa A



The '65 Cobra

As a teenager in a suburb of Detroit, Larry Anderson, lived midway on the 26-mile stretch of road that was Michigan's famous street-racing thoroughfare. In summer, with his bedroom windows

open, he would listen at 2 a.m. to the speeding cars on Woodward Avenue, and yearn for the day he could join them. Anderson had his future pretty much planned in those days—college at the insistence of his father, then taking over the family business. It would be a good life, if a placid one. As for excitement, there were cars, to say nothing of racing. To a boy from Michigan, that was enough.

There have always been the cars, and for a time racing as well. Throughout his life, Anderson has maintained a passion for classic autos, and has owned several. When he was in college, he bought a 1965 AC Cobra. An English sports car, rebuilt in America with an oversized motor, only about 1100 of the model were



Lessons from Larry Anderson



Photo by John Seccombe

manufactured. He drove the car while in college, refinanced it three times, and reports he still has it "to remind me of my identity and youthful passion."

However, the pathway taken by the man who today is Larry Anderson, PhD, professor of anatomy and neurobiology, might have surprised those who knew him then. In fact, he often is surprised himself. He took only one course in anatomy and yet has taught it for 30 years. When asked if he ever dreamed that might happen, he replies, "Teach it? I never thought I'd use it."

Anderson, who currently is course director of structure and development, has succeeded in life with the help of a two-fold formula that begins with an essential trust in opportunity. Whenever it knocks, he opens the door. His second theory is one he has been vigorously instilling in his students at Maryland since the day he first stood before a class. "Have fun. Enjoy what you do."

He talks of the students who enter medical school, fresh from undergraduate work or the pursuit of another career, and the competition that comes with being the brightest, and getting the best grades. "I tell them to relax," he says. "I know they are smart and motivated or they wouldn't be here. It's time now to forget about competition and concentrate on learning. I try to impress them that not getting a passing grade on every examination is not the end of their world—or their career. They have to enjoy learning while they are here because they probably will be continuing to learn for the next 50 years."

He also tells his students that, if they are in a bad relationship, they need to get out of it right away. "If you don't have the courage to do it yourself, call me and I'll do it for you," he adds. That may be part of the reason students call him Papa A. He cares, and they know it.

Possibly the earliest turning point in Anderson's own life came as a sophomore in college. His father died sud-



Anderson has succeeded in life with the help of a two-fold formula that begins with an essential trust in opportunity. Whenever it knocks, he opens the door. His second theory is . . . "Have fun. Enjoy what you do."

wanted, and so he dropped out of med school to focus on his PhD in physiology and biochemistry, which he earned in 1976. By that time, he was absorbed in the research he was doing on the mammary gland. "I was bitten by the research bug," he says, "and there was no turning back from it. It became my passion."

In 1976, Anderson accepted an NIH postdoctoral fellowship in reproductive endocrinology at Maryland's department of physiology. By that time, he was married and had a son, and would soon have a daughter. He assured his wife, Shirley, who had never before been outside Michigan, that it would only be for a few years.

Looking back on those early days, Anderson recalls, "I had the good fortune to work with the chair of physiology,

denly and so the son left school for a while to take up his expected post in the family business. It isn't what he says now of that time as much as the nuances behind his words that give one the sense that the loss of his father did as much as anything to shape his future. It drove home the uncertainties of life and the importance of filling it with as much meaning as possible. He began to explore new ideas and question the old ones. In time, he returned to college. It was about then that he was introduced to biology, and saw an opening in that first doorway to opportunity.

"I thought biology was cool," Anderson says. "When my professor asked if I wanted to work in his lab that summer, I thought 'why not.' He was working with frog eggs. I suppose neither he nor I knew where that would lead me."

After college, Anderson went on to earn a master's degree in biology, where he graduated from frog eggs to toad eggs, and then enrolled in the MD/PhD program at Wayne State University. By the start of his third year, he knew the practice of medicine was not what he

Cornelia Channing, PhD. She was a workhorse and an unbelievably talented woman. Unfortunately, she died early in her career, but by that time she had become famous by being able to take cells out of ovaries and grow them in culture. We worked well together. Being in her lab and being part of her research really jump-started my future."

The Channing laboratory discovered that a hormone, inhibin, thought to be present in the male only, actually is present in the female as well. Inhibin is secreted by granulosa cells in the ovaries to regulate the secretion of the follicle stimulating hormone from the pituitary gland. This discovery led to investigation of other hormones possibly present in the ovaries, particularly local growth factors and other new hormones, including activin, that might have an impact on kidney and cancer research. "It seemed incredible to me that I could be part of something like that," Anderson says. "I kept telling myself I had actually done something. It's hard to explain that kind of excitement."

The Move to Anatomy

By this time, the young scientist was soon to complete his fellowship and research in the Channing laboratory. He started looking for a job. When it was suggested that he apply for an opening in Maryland's anatomy department, his initial reaction was, "Me? Anatomy? You've got to be kidding." But there it was, that nagging possibility of opportunity hinting that maybe this could lead to something. In the end, he found himself meeting the department chair who proposed he give a seminar. So with one course in the subject under his belt, he did so and got the job. As he says in retrospect, "My bluff had been called." Meanwhile, he kept telling Shirley it would be only a few more years; then they would return to Michigan.

Anderson is a pragmatist. He had already written and received his first NIH grant on inhibin, and another on steroids. So he reckoned that the reason he got the anatomy job was that, having already garnered a few grants, he was possibly viewed as a potential academic "cash cow." Being practical, however, he also knew he wouldn't be left to pursue only his research. His job was contingent on teaching. When his course director learned his extent of classroom anatomy was limited to a few months as a student, he reminded him that the school teaches dissection, and strongly suggested that he start practicing on a cadaver to prepare for what lay ahead.

"I didn't have very much time," he remembers. "I had my research, and I had a three-year-old son, and a three-month-old daughter." Then too, there were his cars. As a teenager, he got his boyhood dream when he raced his 1964 Pontiac GTO down Woodward Avenue with its three carburetors and four speeds. Not only does he still own the car, he has added to his collection with a 2005 GTO. He has often raced the Cobra in Michigan and at Summit Point in Virginia, and enjoys working on the cars and what he calls "the joy of getting my hands dirty."

However, the new challenge of learning dissection—Anderson calls it opportunity—drew his attention, and he began spending his afternoons practicing on a cadaver.

"I would follow other doctors around to learn from them," he says, "I was the young upstart, but they were very helpful. I soon realized that I found the whole experience fascinating. I became motivated and wanted to learn more. I must admit, though, it took five years before I became really confident about teaching the course."

His students remember it differently. George Boyer, '83, now chair of the department of medicine, pulmonary and critical care at Baltimore's Mercy Medical Center, was a student in Anderson's class during the first year the then assistant professor taught gross anatomy. He recalls that he and his classmates didn't know what to expect. They were filled with the gravity of their roles as future doctors, and that first week, especially working with cadavers in the anatomy lab, was daunting.

"I remember attending what probably was Larry's first lecture," Boyer says. "He must have been on the lower rungs of the faculty hierarchy, and one might think as nervous as we were. But he was neither intimidated nor intimidating. He had our interest from the minute he began to speak about the heart, pretending that he was a red corpuscle, making his journey through the heart. He had



Anderson, right, working with Mary Hoffman, '90, and Jerry A. Hunter, '90 during anatomy class in 1986

the attention of everyone in the room, and I think he held it throughout the course."

Anatomy was the cornerstone of the medical school when it opened in 1807. That hasn't changed. Unlike many schools, dissection is still taught at Maryland, and it is no less important today than it was in 1807.

"Before they begin their first dissection, I tell students this is their first patient," Anderson says. He adds that he expects them to extend the same respect to the cadaver on the dissection table as they will to those patients who later fill their offices.

"This person before you is the teacher," he tells the class. "I can help you understand, but he or she will teach you anatomy."

His own take on dissection is that there is much more to be learned than academic discovery. He believes it teaches a reverence for humanity and an opportunity for students to learn in real time, instead of from a book. It is a lesson, he says, that aims to change the mind set of students from making the A-list to learning—for themselves and their future patients.

Bruce Jarrell, MD, vice dean for research and academic affairs, reports, "Larry Anderson is the consummate researcher and teacher. He is totally supportive of his students, and committed to them in every way. He's a bit of a 'mother hen.' That's part of his caring as much as he does."

Anderson makes it clear that gross anatomy isn't a survey course, but one in which students are given the essentials they need in order to build their medical careers. In the early days, anatomy, histology and embryology were taught as separate courses. Today, they are integrated within one course. Radiology has become an integral part in the education of gross anatomy, since MRI, CT, ultrasound, and radiographs comprise how students will be using anatomy in their medical practices. Modern imaging can be used to visualize and dissect the heart, and to understand its functioning. Today's software combines all the cross sections of the body and reconstructs them into what the body looks like three-dimensionally. It can rotate an image of the heart, for instance, and bring it into the full body with lungs and diaphragm. What anatomy students see today is what they will see in practice, a process that replaces what was once called exploratory surgery. So while dissection remains the source of understanding the human body, today's technology broadens the lesson into the format physicians encounter in practice.

Continuing Passion for Research

Through the years, Anderson continued doing his research, building his lab, and working with graduate students and post docs as he sought funding for a variety of projects. At one point, while studying the formation of steroids by granulosa cells of the ovarian follicle, he discovered a new steroid that appeared to be a cross between estrogen and androgen. It turned out to be an anabolic steroid, which



Radiology has become an integral part in the education of gross anatomy, since MRI, CT, ultrasound, and radiographs comprise how students will be using anatomy in their medical practices.

was recently re-discovered by a British team examining race horses suspected of having been drugged.

Another time, one he references as "opportunity knocking," his experience in working with eggs in various animal species, served as the impetus for him to start up Maryland's in vitro fertilization program with the department of obstetrics & gynecology. That experience, which helped him in assessing human sperm and understanding the physiology of the male reproductive system, led to another research project in collaboration with Dennis Hoover, PhD, and Melissa McDiarmid, '79. The study investigated the long-term effects of depleted uranium on injured Gulf War and Iraq War veterans. Anderson and Hoover are assessing the reproductive health of these men.


Anderson admits that, in his own career, he has immersed himself in research. It was his first love, the passion he aligns with cars. But he has a tendency to constantly re-invent himself. He likes diversity, and once he becomes engaged in something, he becomes totally absorbed, sometimes surprising himself. It has been that way with teaching, something he now counts as still another passion.

"I'm honored to be in this position," he says. "I've had some amazing people come before me, and it has been a privilege to be part of their medical education. I feel I want to do more than that though. I want to influence their outlook, not only about medicine, but about life."

It was 32 years ago that Larry Anderson first came to the University of Maryland as a research fellow, promising his wife it would be a short-term affiliation, followed by their return to Michigan. Fortunately, he and Shirley have long been happily settled along the Chesapeake Bay. As for the impact of his years at Maryland, it is evidenced by overwhelming praise from students whose ratings of his teaching in yearly evaluations range from "amazing professor," to "clear and understandable presentations," to the most oft cited appraisal, "he really cares."

Anderson's popularity is perhaps best expressed by former student, Frederick W. Schaerf, '83 (MD/PhD), a neuro-psychiatrist practicing in Fort Myers, Florida. "He probably influenced my life more than anyone else," Schaerf says. "He taught me to enjoy life, and how to apply that to rigorous scientific study." 🏠

Bring Home a Piece of Medical School History



**Order Your
Davidge Elm**

The original English Elm was planted beside Davidge Hall in 1812, the year our medical building opened for instruction. When it was removed in December 2001—189 years later—its seedlings were shipped to a nursery. A limited number are now available for purchase with shipment scheduled for March 2010.

To order your Davidge Elm, please contact Larry Pitrof at the Medical Alumni Association by calling 410.706.7454 or emailing larry@medalumnl.umaryland.edu. The purchase price includes shipping, planting at your location, and a tax-deductible gift to the Davidge Hall Restoration Fund.

By Rita M. Rooney

Trailblazing



Thomas M. Scalea, MD, atop Shock Trauma

Trauma Research

Start with a Congressional mandate for a national trauma study center. Add a program that treats 2,000 brain injuries a year, more than any other facility in the country, and expand such an impact with the talents of basic and translational researchers in both trauma and anesthesiology—all driven by the same tenacity to study and ultimately minimize the impact of trauma.

Thomas M. Scalea, MD, professor of surgery, director of the program in trauma, and physician-in-chief at the R. Adams Cowley Shock Trauma Center reports, "This building houses the only trauma hospital that exists in the United States. It encompasses 200,000 square feet of space dedicated entirely to injury and critical illness, and provides a patient population base that furthers critical trauma studies undertaken by the center for trauma and anesthesiology Research."

Designated an organized research center (ORC) by the University of Maryland in 2007, the center originally was created by an act of congress and named the Charles "McC" Mathias Jr. National Study Center for Trauma and Emergency Medical Systems. Today, the center is funded in excess of \$20 million by the National Institutes of Health (NIH), the U.S. Department of Defense, the State of Maryland, and all three branches of the military.

Scalea explains the two medical specialties of trauma and anesthesiology share a long history of collaborative research at Maryland. "We have an impressive roster of first-class investigators, working together on one campus in robust clinical, basic and translational research paired with epidemiologic studies conducted by the National Study Center," he says. "We can move from bench to bedside to population—and work in the reverse as well. I don't know of any other institution that has that advantage."

The war in Iraq has led to a growing recognition of a neglected area of research, one that has defined a targeted area of study at the ORC. Numerous studies have focused on severe brain injury. Mild to moderate brain injury, however, has been largely overlooked until recently when military personnel, exposed to the constant blast from explosions, have returned home to face consequences that often can be disabling. While the seriousness of complications associated with mild brain injury is underscored by war casualties, the impact to civilians is no less threatening. The massive number of such injuries sustained in Baltimore alone in any given year confirms the importance of extensive research. Such injuries may present no long-term setbacks—or they may result

"Our team goes into action immediately following an injury," Dischinger reports. "We reconstruct the entire crash, obtaining detailed data on injuries as well as crash circumstances, including the forces, contact points and intrusions involved."

in post concussive incidents, headaches, hearing problems, sleeplessness, dizziness and even an inability to function on the job or in school.

The medical school's national study center conducts a crash investigation project that provides valuable statistical information on the effort to reduce injuries, including brain injuries, resulting from vehicular accidents.

Patricia Dischinger, PhD, an epidemiologist at the center, reports that the project known as CIREN (Crash Injury Research Engineering Network), which is funded by the National Highway Traffic Safety Administration (NHTSA), involves participation from trauma surgeons, bio-mechanical engineers, social workers, crash reconstructionists, data managers and police officers.

"Our team goes into action immediately following an injury," Dischinger reports. "We reconstruct the entire crash, obtaining detailed data on injuries as well as crash circumstances, including the forces, contact points and intrusions involved. In addition, we obtain follow-up interviews to determine factors related to return to pre-injury functional status. An extensive report on every aspect of the crash and the trauma itself is compiled and becomes part of a national data base used to provide feedback to NHTSA and auto manufacturers to reduce morbidity and mortality due to crashes."

Peter Rock MD, MBA, professor and chair of anesthesiology, explains, "Severe brain injury is a more obvious condition, but the subtle injuries during which a patient has lost consciousness for a short time, or not at all, those are the ones that demand a high level of expertise and a team approach, such as the one employed at this center."



Patricia Dischinger, PhD

Photo by Richard Lippenholtz

Rock believes that one of the reasons the ORC has focused on brain injury is that its team of investigators has considerable experience in an arena that isn't applicable to just one medical discipline.



A significant difficulty in treating mild to moderate brain injury stems from the inability to predict whether or not a specific patient will become disabled as a result of the initial incident.

"The importance of this research center is its success in putting together a multi-disciplinary team that, in addition to trauma specialists and anesthesiologists, includes neurologists, neurosurgeons, psychiatrists, psychologists, radiologists, biochemists, and people exploring new technologies.

"During this time of fiscal constraints, it's important for an institution to leverage its strengths," he adds. "We have very deliberately established the kind of program that does that."

A significant difficulty in treating mild to moderate brain injury stems from the inability to predict whether or not a specific patient will become disabled as a result of the initial incident. There is no conclusive way to look at two soldiers who sustained similar brain injuries in Iraq and determine which one will be fine, and which one is at risk for post-concussive illness. CT scans determine structural injury, but so far there is no technology that detects whether a person is likely to incur blackouts, nausea or memory loss as a result of a brain injury.

The imperative then becomes to better predict in individual patients what the outcome of a brain injury might be. That effort is underway through numerous studies at the ORC, beginning with the creation of a data base unlike anything available elsewhere. While trauma statistics traditionally have been thrown together in large data bases for years, the numbers generally are flawed because they are not prospective or detailed, and don't include follow-up. Instead of looking at charts after the fact, the ORC program focuses on prospective patient and nurse interviews, pre-hospitalization data plus periodic and thorough patient follow-up over the course of a year.

Richard Dutton MD, MBA, associate professor of anesthesiology, explains. "We call people back to review their symptoms, medical history, depression, and the incidence, duration and severity of migraines," he says. "At this point, we are searching for markers in the blood that are associated with brain injury and can be identified in lab tests."

All of this is being used along with new technology, specifically a device called a brain acoustic monitor (BAM) which was developed at the university and works as a kind of stethoscope for the brain. It all came about as the result of a connection Dutton made with a Baltimore company of acoustical engineers once contracted by the government during the Cold War to detect Russian submarines through

a sonar device. When that market no longer existed, company executives began thinking about medical applications.

"We started exploring the possibility of developing a brain monitor," Dutton says. "Since scans tell us a lot about the anatomy of the brain, but nothing about how it is working, we were looking for a non-invasive method of getting real information about what is going on."

The resulting BAM team came up with a device that can be attached to the patient in the ambulance or helicopter. Within a few seconds, it measures sound going through the brain, then emits a signal indicating whether or not the person has a brain injury. The ORC recently concluded a study for the Air Force that demonstrated how the monitor's measurement can be compared to the severity of a brain injury and the occurrence of post-injury symptoms.

"This has taken a long time to develop," Dutton says. "We're now conducting the eighth trial of the device. First, we focused on determining the presence of a brain injury. Now the question is whether or not it can tell us when a patient's condition has improved. We have data from 500 patients we are analyzing. It will take some time yet, but we hope one day to be able to prescribe therapy based on a patient's BAM."

As the busiest trauma program in the country, Maryland's ORC treats more patients with life-threatening bleeding from trauma than any other. Questions have been raised about transfusion—when to administer blood, how much to administer, whether or not to give the patient both red blood cells and plasma.

"If it becomes a surgical problem, you can fix it," Dutton says. "But we've learned there are important medical considerations as well."

His laboratory has a large grant to study specific components of clotting aimed at determining factors that may identify people at risk for bleeding, and trying to pinpoint when a patient becomes coagulopathic, as well as which injuries may be most closely related. In the last five years, investigators have been studying a drug called Factor VIIa, an artificial form of a natural protein in the body that stimulates clotting. ORC researchers have determined which patients it will help, and have been using it to replace the natural protein in the body when needed. In the meantime, Dutton is one of 10 investigators serving on a worldwide Factor VII steering committee, and has co-authored several papers on Maryland's experience with the drug.



Peter Rock, MD, MBA

One part of the cell especially sensitive to oxidated stress is the mitochondrion, and that's the part of the cell that produces the vast majority of the energy necessary to sustain life. If it is injured, it can cause brain dysfunction or even death.

Deborah Stein MD, MPH, assistant professor of surgery, admits brain injury is a frustrating disease process. "Most of what we do is necessarily reactive," she says "We see swelling, and so we treat that. But if we could say beforehand that a person is at risk because a specific cytokine in the blood is particularly dangerous, then we could come up with a drug to counteract the cytokine."

Stein's primary area of research is identifying substances associated with brain injury. "We know that these patients have severe respiratory failure and an elevation of cytokines," she says. "Some of them become seriously ill with systemic disorders including lung and liver problems. What I want to know is what it is that increases the danger of this happening. Is it that the brain is releasing substances that lead to systemic illness?"

The laboratory is conducting a prospective study for the presence of systemic inflammatory response in selected patients within 24 hours of admission. The team does blood sampling and collects spinal fluid. Approximately 30 patients were enrolled in an unfunded study last year and results are now being analyzed. A new funded study is currently enrolling additional patients.

"We're looking to see if levels of cytokines in the blood and spinal fluid correlate with intracranial pressure," Stein reports. "Is the amount and specific type of cytokine related to death or other outcomes? We continue to perform functional follow-up studies on these patients to see if their conditions can be predicted by anything we see early on. Of course, our ultimate goal is to come up with therapy."

Translational neuroprotection research is ongoing at the ORC under the leadership of Gary Fiskum PhD, professor of anesthesiology and vice chair for research. His team approaches brain injury from two perspectives—when it is a direct result of the injury, and when it is caused by brain-impaired blood flow that occurs when the brain swells following trauma, or when there is a severe drop in blood pressure.

"Much of our work focuses on energy metabolism in the brain," Fiskum reports. "The brain consumes about 90 percent of the energy in the body. One of the strengths of our research is understanding how the change in the energy metabolism of the brain ultimately leads to brain cell death and neurological impairment. Then by knowing what appears to be important, we can come up with strategies to repair the damage."


He adds that a vast majority of oxygen is used by the body in a safe way to fuel energy metabolism. There is a small percentage, however, that creates toxic byproducts

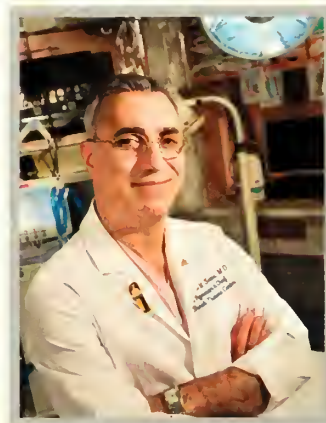
called reactive oxygen species or free radicals. These have been generally accepted as contributing to many forms of traumatic and inflammatory tissue injury, and are even responsible for age-related memory loss.

One part of the cell especially sensitive to oxidated stress is the mitochondrion, and that's the part of the cell that produces the vast majority of the energy necessary to sustain life. If it is injured, it can cause brain dysfunction or even death. Fourteen members of Fiskum's research group, including seven faculty members, are involved in highly developed studies of the mitochondrion, in collaboration with investigators from several other departments, including pediatrics, neurology, and biochemistry and molecular biology. They are examining how it works normally, how it is damaged following brain ischemia and head trauma, and how to inhibit that damage by optimizing critical care procedures after injury and by administration of experimental drugs. Fiskum and colleagues are at the forefront of the emerging field of mitochondrial medicine, applicable to the treatment of critically ill patients who survive only when the energy metabolism of the brain and other vital organs is maintained.

Rock summarizes the ORC program by stressing its efficiency. "We do not over-extend ourselves," he says. "We have focused on traumatic brain injury and have put together the strongest resources possible to address important problems—and that includes the enormous personal resources within our faculty."

Scalea agrees and adds that the essence of the ORC is finding answers that can be put to use at the bedside of traumatized patients.

"For instance, there is a great deal of interest in post-traumatic stress disorder," he says. "There is considerable incidence of this as well as brain injury in the military. Could they be the same disease? It's possible. Certainly there is a close association between the two. There are many similarities here to unlock. Right now, we don't have the answers. But we're trying to find them. That's what this center is all about." 



Thomas M. Scalea, MD

Photo by Stephen Spartana



**He thinks he's just
slowing down with age.**

What he doesn't know is that shakiness and stiffness are both early signs of Parkinson's. He doesn't know that he'll become a patient of the Parkinson's Disease and Movement Disorders Center, where an experienced team and the latest medications will enable him to manage his symptoms for a number of years. And he doesn't know that when the time is right he'll have Deep Brain Stimulation surgery to significantly improve his quality of life.



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Appointments to National Organizations

Carol Carraccio, MD, MA, professor, department of pediatrics, was elected secretary-treasurer for the American Board of Pediatrics for 2009.



Paula Geigle, PT, PhD

Paula Geigle, PT, PhD, assistant professor, department of physical therapy & rehabilitation science, was elected to the nominating committee of the oncology section of the American Physical Therapy Association.

Howard Goldman, MD, professor, department of psychiatry, was appointed to the Institute of Medicine's Robert Wood Johnson Health Policy Fellowship Program's advisory board for the term June 2008 to May 2011.



Bret Hassel, PhD

Bret Hassel, PhD, associate professor, department of microbiology & immunology, program in oncology and institute of human virology, and

Geoffrey Girnun, PhD, assistant professor, department of biochemistry & molecular biology

and program in oncology, served on a peer review panel for the Flight Attendants Medical Research Institute in October 2008.

Deanna Kelly, PharmD, associate professor, department of psychiatry, was selected as a full member into the American College of Neuropsychopharmacology.

Teodor Postolache, MD, associate professor, department of psychiatry, was elected chair of the allergy, depression and suicide session at the 12th European Symposium on Suicide and Suicidal Behavior in Glasgow, Scotland, in August 2008.

Michael T. Shipley, PhD, Donald E. Wilson Distinguished Professor, and chair, department of anatomy & neurobiology, was elected chair-elect of the section on neurosciences to the American Association for the Advancement of Sciences. Shipley will be chair-elect in 2010 and chair in 2011.

Awards & Honors

Douglas Boggs, PharmD, research associate, department of psychiatry, received a new investigator award from the new clinical drug evaluation unit of the National Institute of Mental Health. He also became a board certified psychiatric pharmacist (BCPP).

Angela Brodie, PhD, professor, department of pharmacology & experimental therapeutics and program in oncology, received the Martin D. Abeloff, M.D.

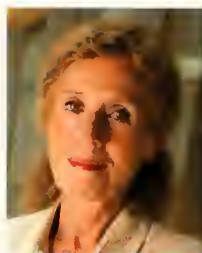
Award for Excellence in Public Health and Cancer Control from the Maryland State Council on Cancer Control. Brodie pioneered the development of aromatase inhibitors, revolutionary drugs for the treatment of breast cancer. The cancer council initiated the award in 2007 to honor the memory of Abeloff, who was director of the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins until his death last year.

Bernard A. Fischer, MD, postdoctoral fellow, received a young investigator award from the National Alliance for Research on Schizophrenia and Depression.

Joscelyn E. Fisher, PhD, academic fellow, department of psychiatry, received a young investigator award from the National Alliance for Research on Schizophrenia and Depression.

Douglas J. Floccare, MD, MPH, clinical assistant professor, department of emergency medicine, and state aeromedical director, Maryland Institute for Emergency Medical Services Systems, was named medical director of the year by the Air Medical Physician Association. The award was presented during the annual conference of the Association of Air Medical Services, held in Minneapolis in October 2008.

Jon Mark Hirshon, MD, MPH, associate professor, departments of emergency medicine and epidemiology & preventive medicine, and **Aisha T. Liferidge, MD**, instructor,



Angela Brodie, PhD

department of emergency medicine, have been named heroes of emergency medicine as part of the 40th anniversary celebration of the American College of Emergency Physicians (ACEP). This ACEP campaign recognizes individuals who have made significant contributions to emergency medicine and to their communities and patients. Hirshon has been the principal investigator on more than \$4.5 million in federal research and training grants, with a special interest in the interface of emergency medicine and public health. He serves as vice chair of Maryland's institutional review board and is the immediate past president of the Maryland chapter of ACEP. Liferidge is a past national president of the Emergency Medicine Residents Association and chairs the Dr. Aisha Liferidge Minority Women in Science Foundation, serving minority women pursuing professions in science-related fields through mentorship, resources and networking.

Miriam Khambaty, MD, clinical assistant professor, department of medicine and institute of human virology, was one of 45 nominees for the Association of American Medical Colleges (AAMC) 2008 Humanism in Medicine

Award. Khambaty received a plaque to commemorate her nomination for the award. The award is selected by the AAMC's organization of student representatives, presented by the association and supported by Pfizer, Inc.

Vadim M. Morozov, MD, associate professor, department of obstetrics, gynecology & reproductive sciences, received the 2008 IRCAD (Research Institute Against Digestive Cancer) Karl Storz Award, presented to him at the 37th Global Congress of Minimally Invasive Gynecology in Las Vegas. Morozov's submission was entitled "Proposal of a Formal Gynecologic Endoscopy Curriculum." He will travel to Strasbourg, France, to participate in a one-week course in minimally invasive surgery at the European Institute of Telesurgery (EITS) at the University of Strasbourg. Since 1994, IRCAD-EITS has made itself known as a prestigious center of excellence in the fields of basic and applied research, and new surgical technologies. The reputation of IRCAD-EITS



Miriam Khambaty, MD

contributes to position this unique institute among the top surgical training centers in the world.

Charles S. Resnik, MD professor, department of diagnostic radiology & nuclear medicine, was inducted as the new president of the Association of Program Directors in Radiology at the group's annual meeting in Seattle.



Mary M. Rodgers, PT, PhD

Mary M. Rodgers, PT, PhD the George R. Hepburn Dynasplint Professor and chair, department of physical therapy & rehabilitation science, has been accepted for the Leadership Maryland Class of 2009. Founded in

1992, Leadership Maryland is an independent, educational non-profit organization designed to inform top-level executives from the public and private sectors about the critical issues, challenges and opportunities facing the state of Maryland and its regions. Rodgers is one of 46 accomplished and talented statewide leaders selected to participate in the eight-month program.

Events, Lectures & Workshops

Curtis Adams, MD, assistant professor, and **Ann Hackman, MD**, associate professor, both from the department of psychiatry, co-chaired a workshop entitled "Assertive Community Treatment Teams (ACT): The Opening Night and the Extended Engagement" at the American Psychiatric Association 60th Institute on Psychiatric Services in Chicago in October 2008. Additionally, at the same conference, Adams and Hackman participated in a workshop entitled "Supporting People with Severe and Chronic Mental Illness in an ACT Team Who Have Been Diagnosed with Terminal Illness," which was chaired by **Theodora Balis, MD**, assistant professor, department of psychiatry.



Maureen Black, PhD

A Neglected Factor in Maternal and Child Undernutrition."

Howard Dubowitz, MB, ChB professor, department of pediatrics, was an invited speaker, presenting "The Health Professional's Role in Child Maltreatment" at a series of workshops at Fudan University in Shanghai, China, and presented "Child Maltreatment: A Curriculum for Physicians" at the 17th International Congress on Child Abuse and Neglect in Hong Kong, both in September 2008.



Howard Dubowitz, MB, ChB



Joyce Frye, DO, MBA

with a Practitioner and Use as Self-care in the 2002 National Health Interview Survey" at Liga Medicorum Homeopathica Internationalis, in Ostende, Belgium; "CAM in the Peri-operative Period: What to Use and What to Avoid" at the American College of Obstetricians and Gynecologists annual clinical meeting in New Orleans; and "Healing the Body Through Holistic Medicine" at a conference entitled "Celebrating the Journey: Mid-Life Health Care for Women," which was sponsored by the Hippodrome Foundation, Inc., and the University of Maryland Medical Center and held at the Hippodrome Theatre in Baltimore.

Maureen Black, PhD John A. Scholl, MD & Mary Louise Scholl, MD Professor of Pediatrics gave an invited lecture at Wageningen University in Holland in October 2008. Her lecture was entitled "Child Development

Bruce D. Greenwald, '87 associate professor, department of medicine, presented "New Technologies for Ablating Barrett Esophagus" at the American College of Surgeons 94th Annual Clinical Congress in San Francisco in October 2008.

Lixing Lao, PhD professor, department of family & community medicine, and director of traditional Chinese medicine, center for integrative medicine, presented the following lectures in May 2008: "Promoting Traditional Chinese Medicine (TCM) in the United States and the Western World. Challenges and Strategies" at the State Administration of Traditional Chinese Medicine in Beijing, China; "TCM Clinical Research and Acceptance in USA: Challenges and Difficulties" at Guangzhou University of Traditional Chinese Medicine in Guangzhou; and "Clinical Efficacy of Acupuncture: Challenges and Methodology" at a National Institute on Drug Abuse workshop, in conjunction with its center for clinical trials network and division of clinical neuroscience and behavioral research, in Bethesda, Md.



Lixing Lao, PhD

Nancy Ryan Lowitt MD, EdM, FACP, associate dean, professional development, and assistant professor, department of medicine, developed and moderated a focus session entitled "Faculty Development: Models and Experience for New Schools and New Campuses, New Curricula" for the Association of American Medical Colleges annual meeting in San Antonio in November 2008.

Michael J. Makley, MD assistant professor, department of neurology, gave an invited platform presentation at the inaugural meeting of the National Institutes of Health US Critical Illness and Injury Trials Group in Bethesda, Md., in November 2008. Makley's presentation was entitled "Sleep, Memory and Behavior after Moderate to Severe Brain Injury. Developing a Paradigm for Treatment Trials."

Stuart S. Martin, PhD assistant professor, department of physiology and program in oncology, presented a lecture "Metastasis-associated Microtentacles Are Induced in Detached and Circulating Breast Tumor Cells

faculty



Stuart S. Martin, PhD

by Expression of the Microtubule-binding Protein, Tau" at the December 2008 American Association for Cancer Research San Antonio Breast Cancer Symposium. Martin's talk was presented to the joint session of this national cancer meeting, which had nearly 9,000 attendees with expertise ranging from basic cell biology to the clinical treatment of breast cancer. The presented work on Tau was led by **Michael Matrone**, a PhD student in Martin's lab who is studying in the molecular and cellular physiology track in the program in molecular medicine.

Amal Mattu, '93, associate professor, department of emergency medicine, was the keynote speaker at the Jamaica Emergency Medicine Association annual conference in Kingston, Jamaica, in June 2008. The title of his talk was "Best Cardiology Articles of the Past Year." In addition, Mattu, along with **Robert L. Rogers, MD**, assistant professor, department of emergency medicine, conducted faculty development workshops for academic emergency physicians in The Netherlands in September 2008. The workshops are part of a new administrative/faculty development fellowship at Erasmus University in Rotterdam. The fellowship is coordinated by **Terry Mulligan, MD**, volunteer assistant professor, department of emergency medicine. Rogers and Mattu focused their sessions on teaching and leadership skills, precepting a medical student rotation and directing an emergency medicine residency.

John McLenithan, PhD, assistant professor, department of medicine, presented a symposium talk entitled "Omentin in Human Obesity" at the Obesity Society annual scientific meeting in Phoenix in October 2008.

Ayse L. Mindikoglu, MD, MPH, assistant professor, department of medicine, presented an abstract entitled "Outcome of Liver Trans-



Amal Mattu, '93

plantation for Drug-Induced Acute Liver Failure in the United States: Analysis of the United Network for Organ Sharing Database" at The Liver Meeting™ 2008, sponsored by the 59th Annual Meeting of the American Association for the Study of Liver Diseases in San Francisco in November 2008. **Laurence S. Magder, PhD, MPH**, associate professor, department of epidemiology & preventive medicine, is the co-investigator and co-author on this project.



Laurence Magder, PhD, MPH



Kevin D. Pereira, MD, MS

Kevin D. Pereira, MD, MS, professor, departments of otorhinolaryngology-head and neck surgery and pediatrics, presented "Pediatric Piriform Sinus Tracts: A Ten-year Experience" at the 49th meeting of the Irish Otolaryngology-Head and Neck Society in Enniskillen, N. Ireland, in October 2008. Also in October 2008, Pereira was a visiting professor for the first post-graduate course in pediatric otolaryngology organized by the specialist training program in otolaryngology in Craigavon, N. Ireland. His lectures were entitled "Pediatric Otolaryngology training in the U.S. An Overview," "Branchial Anomalies: An Update," and "Pediatric Subglottic Stenosis."

William F. Regine, MD, Isadore and Fannie Schneider Foxman Chair in Radiation Oncology, was the invited speaker at the Fourth Annual Oncology Congress in San Francisco in September 2008.

Regine's presentation was entitled "Novel Radiation Approaches in the Treatment of Pancreas Cancer."

Carl A. Soderstrom, MD, adjunct professor, department of surgery, presented "Pearls from Experts: Screening & Brief Intervention



William F. Regine, MD

for Alcohol Use at Trauma Centers—Translating Science into Clinical Practice" at the 22nd annual scientific assembly of the Eastern Association for the Surgery of Trauma in Orlando in January 2009.

Shannon Takala, PhD, assistant professor, department of medicine and center for vaccine development, gave an invited talk in a symposium entitled "Artemisinin Resistance Confirmation, Characterization and Containment in Southeast Asia" at the 57th annual meeting of the American Society of Tropical Medicine and Hygiene in New Orleans in December 2008. Takala's colleague, **Christopher Plowe, MD, MPH**, professor, department of medicine, and chief, center for vaccine development malaria section, chaired the symposium. Additionally, Plowe gave an invited talk in another symposium entitled "Global Strategies for Using Antimalarial Drugs: Making the Most of a Precious Resource."



Shannon Takala, PhD



Christopher Plowe, MD, MPH

Larry D. Weiss, MD, JD, FAAEM, professor, department of emergency medicine, presented two lectures at the biennial European Society of Emergency Medicine meeting in Munich, Germany, in September 2008. His lectures were entitled "Consent at the End of Life: A Comparative Analysis of the Laws of Germany, Maryland and New York" and "Rapid Evaluation and Risk Stratification of Patients with Acute Coronary Syndrome." He also presented the opening address and served as a session moderator for "Acute Coronary Syndrome in the Observation Unit and Acute Medicine Unit" at Urgenza VI Congresso Nazionale, organized by the Società Italiana di Medicina d'Emergenza and held in Rimini, Italy, in November 2008. In addition, Weiss presented "Deposition Testimony" and "Physician Advocacy" at the Caribbean Emergency Medicine Congress in Bridgetown, Barbados, in January 2009.



Paul A. Welling, MD

Paul A. Welling, MD, professor, department of physiology, was an invited symposium speaker, presenting "How Potassium Channels Find Their Way in Membrane Traffic" at the 9th Colloque Canax Ionique in

Presquile de Gien, France, in October 2008. Additionally, Welling presented "Golgi Arrest in Inherited Potassium Channelopathies" at the American Society of Nephrology Advances in Research Conference—Human Disorders of Protein Processing: Mechanisms, Consequences and Therapeutic Implications in Philadelphia in November 2008.

Richard Y. Zhao, PhD, associate professor, department of pathology, chaired a session at the 10th Shanghai International BioForum on Biotechnology & Pharmaceutical Industry in Shanghai, China, in May 2008.



Richard Y. Zhao, PhD

Zhao also presented "Single Molecule Detection for Molecular Diagnostics and Individualized Testing" at the Discovery2Diagnostics (D2D) Conference organized by the IBC Life Sciences, in San Diego in October 2008. In addition, he was invited to give a plenary lecture on "Schizosaccharomyces pombe as a Model Organism for Apoptosis-induced HIV-1 Viral Protein R" at the 6th International Conference on Yeast Apoptosis, to be held in Leuven, Belgium, in June 2009.

Book/Textbook Publications

Amal Mattu, '93, associate professor, department of emergency medicine, is the senior associate editor of and chapter contributor to *Emergency Medicine: A Focused Review of the Core Curriculum*, a board review book

published by the American Academy of Emergency Medicine. Chapters were contributed by **Robert L. Rogers, MD**, assistant professor and director of undergraduate medical education, department of emergency medicine, who is also one of the book's associate editors;

Joseph P. Martinez, '98, assistant professor, department of emergency medicine, and assistant dean for student affairs, and **Michael E. Winters, MD**, assistant professor, departments of emergency medicine and medicine. The 22-chapter book was copyedited by **Linda J. Kesseling, MS, ELS**, the technical editor/writer in the department of emergency medicine.

Stephen M. Schenkel, MD, MPP, assistant professor, department of emergency medicine, is a co-editor of and chapter contributor to *Patient Safety in Emergency Medicine*, a 56-chapter book recently published by Lippincott Williams & Wilkins. Other faculty members who contributed chapters are **Kendall Hall, MD**, assistant professor, department of emergency medicine and Program in Trauma, **Peter Hu, MS, CNE**, assistant professor, and **Yan Xiao, PhD**, associate professor, both from the department of anesthesiology and program in trauma. **Colin F. Mackenzie, MB, ChB, FRCA**, professor, department of anesthesiology, **F. Jacob Seagull, PhD**, assistant professor, departments of surgery and anesthesiology, and **Joseph Twanmoh, MD**, assistant professor, **Larry Weiss, MD**, professor, and **Laura Pimentel, MD**, assistant professor, all from the department of emergency medicine.

Grants & Contracts

Maureen Black, PhD, John A. Scholl, MD & Mary Louise Scholl, MD Professor of Pediatrics, received a five-year \$2.9 million National Institute of Child Health and Human Development R01 grant for her work entitled "Challenge in Schools: Adolescent Overweight Prevention."

William A. Blattner, MD, professor, department of medicine, and associate director, institute of human virology, **Robert R. Redfield, MD**, professor, department of medicine, and associate director, institute of human virology, and **Charles E. Davis, Jr., MD**, associate professor, department of medicine, and clinical

research unit director, institute of human virology, received a seven-year \$5.7 million grant from the National Institute of Allergy and Infectious Diseases for their work entitled "Institute of Human Virology Clinical Trials Unit."

Myron Levine, MD, professor, department of medicine, and director, center for vaccine development, was awarded a two-year \$2.1 million contract from the Program for Appropriate Technology in Health (PATH) and PATH Vaccine Solutions, to conduct a clinical trial entitled "Safety, Immunogenicity and Efficacy following Experimental Challenge of CVD 1208S, a Δ guaBA, Δ sen Δ set Shigella Flexneri 2a Live Oral Vaccine." The overall mission of PATH is to improve the health of people around the world.



Braxton Mitchell, PhD, MPH

Braxton Mitchell, PhD, MPH, professor, department of medicine, received a two-year, \$1 million award from the National Human Genome Research Institute entitled "Genetic Risk to Stroke in Smokers and Nonsmokers in Two Ethnic Groups."

Key co-collaborators on this grant include **Steven Kittner, MD**, professor, department of neurology, and **Jeffery O'Connell, PhD**, assistant professor, department of medicine.

Thomas Pallone, MD, professor, department of medicine, was awarded \$1.8 million for years 20 through 24 of his National Institutes of Diabetes and Digestive and Kidney Diseases MERIT Award. The title of Pallone's project is "Microvascular Transport in the Renal Medulla."

Alice Ryan, PhD, professor, department of medicine, and **Charlene Hafer-Macko, MD**, associate professor, department of neurology, received a five-year \$2.5 million R01 grant from the National Institutes of Health for their work entitled "Aging, Inflammation and Exercise in Chronic Stroke." Ryan and Hafer-Macko are investigators in the Gerontology Research, Education and Clinical Center, a part of the department of medicine's division of gerontology.

175 Years Ago



In 1834, John Wesley Davis, class of 1821, was elected to the U.S. Congress from Carlisle, Indiana. He served three additional terms and, during the 29th Congress, Davis was appointed U.S. Speaker of the House. He would serve as commissioner to China from 1848 to 1851, and in 1852 returned to Baltimore as president of the Democratic convention that nominated Franklin Pierce.

115 Years Ago

In 1894, Thomas C. Gilchrist, MD described the first case of Blastomycosis of the skin. His contribution was the identification and isolation of the double-contoured spore *Blastomyces dermatitidis*, which he identified under the microscope and made accurate drawings. Gilchrist held dual appointments as clinical professor of dermatology at Maryland and Johns Hopkins.



15 Years Ago

In 1994, reforms were brought to the educational curriculum. Lecture time for the first-year class was reduced from eight hours per day to two. Instruction was presented in blocks—varying in length—with small-group teaching, problem-based learning, and increased time for self-study. Basic sciences became multi-disciplinary with emphasis on their clinical relevance. During the clinical years a stronger emphasis was placed on education in the ambulatory setting. Computer labs were built in Howard Hall, and each student was equipped with a laptop computer.



recollections

A look back at America's fifth oldest medical school and its illustrious alumni

student activities

The Junior Bull & Oyster Roast

The class of 2010, now deep into rotations, had an opportunity to gather together in a social setting in late fall, as the Medical Alumni Association staged its annual Bull & Oyster Roast for the junior class. More than 90 of the 140 members were able to attend the event, held in the MSTF Atrium on December 4. Faculty in attendance include assistant dean **Jordan E. Warnick, PhD**, associate dean **Donna Parker, '86**, associate dean **Mickey Foxwell, '80**, and **Larry D. Anderson, PhD**.



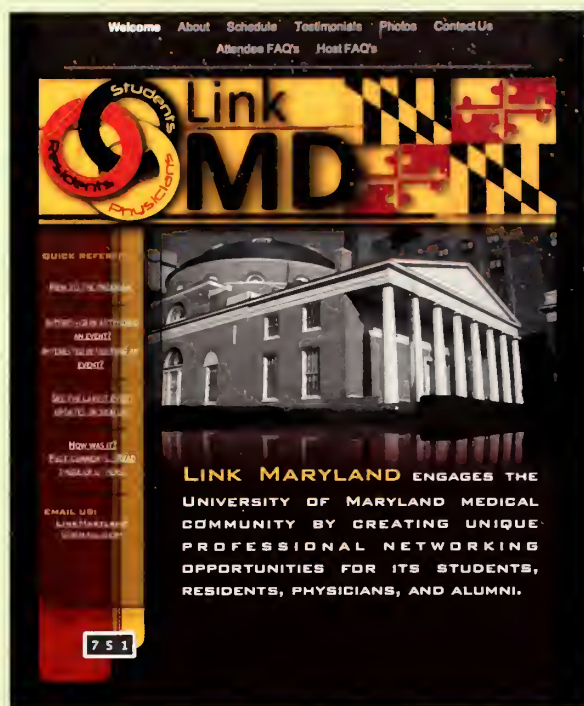
Third-year student **Thomas Reznik** with wife **Annie** and daughter **Caroline**

Students Link with Alumni, Faculty

In order to broaden student awareness about the vast array of professional opportunities in medicine, a group of students has established a social network and invites alumni and faculty to participate.

Founded by second-year students **Ethan Bassett**, **Jeremy Pollock**, **Chris Lemon**, **Lauren Wooley** and **Kristen Angster**, **LinkMD** connects current students with physicians of the various disciplines in informal settings. These events range from a faculty- or alumni-sponsored dinner for just a few students to an afternoon or evening reception for many.

To learn more about **LinkMD**, please visit web.me.com/linkmaryland.



Sophomores Gather at Historical Site

The Waterfront Hotel, built in 1771 as a private residence in Fells Point, was the site of this year's sophomore social. More than 80 members of the class of 2011 attended the event, sponsored by the Medical Alumni Association. It was the fourth consecutive year the party was held at this location—due largely to its popularity. Classmates enjoyed heavy hors d'oeuvres and an array of drinks. This hotel is the second oldest brick building in Baltimore.



Second-year students **Justin Martello**, **Asima Abbas**, **Thao Nauyen** and **Lindsay Croker** at the Waterfront Hotel

Reflections on Privatizing Maryland's Hospital

ALUMNUS PROFILE:

Morton I. Rapoport, '60



Rapoport as an associate dean at the medical school in 1979

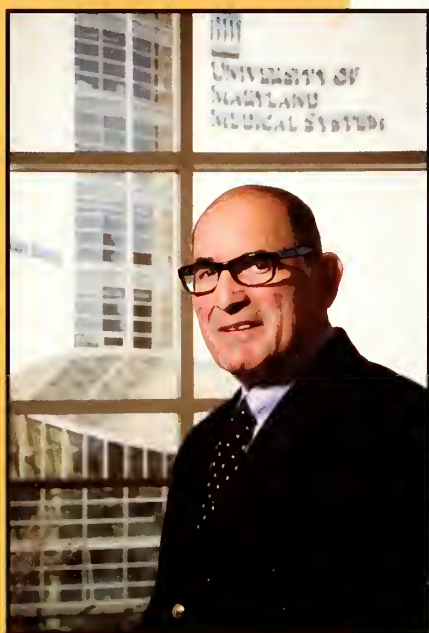


Photo by Richard Lippenthal

At 6:15 a.m., on April 10, 1984, Morton I. Rapoport's, '60, home telephone rang. On the other end of the line a woman sobbed, and he could hear gasping in the background.

His mentor and colleague, Dr. T. Albert Farmer, chancellor of the University of Maryland Baltimore, lay on the floor of his home fighting for his life. Still dressed in pajamas, Rapoport, pulled on a pair of pants and a shirt and raced to the chancellor's home at Hidden Waters just minutes away. He dashed up a flight of steps to the second floor where he found Farmer's wife sitting on the floor with tears streaming down her cheeks holding her husband's hand.

Immediately, Rapoport began mouth-to-mouth resuscitation and chest compressions. An emergency medical team arrived, administered a shock to the dying man, and whisked him to a nearby hospital. Despite their efforts, Farmer was dead.

"What am I going to do?" thought Rapoport. Later that morning the Maryland General Assembly was to pass legislation privatizing University Hospital. Rapoport was to serve as CEO for the enterprise, but the architect behind the initiative who would provide his political protection had just died. "I had bought into this idea even though many in the system, including physicians, department heads, assistant deans, and employees bristled at the notion," he said.

His decision was to move forward.

"The next three to four years were turbulent," recalls Rapoport, age 74, who is writing a book with former colleague Stephen C. Schimpff, MD, about the hospital's transformation. By 1987, the job was "very, very stressful. I didn't have any friends."

Yet, today, 25 years after Rapoport led the privatization of University of Maryland Medical System, his accomplishments are far reaching and hard to dispute. From 1984 until his retirement in 2003, revenue grew more than seven fold to about \$1 billion, admissions more than doubled to roughly 50,000—up from 23,000—and five hospitals were acquired.

Rapoport never envisioned himself at the center of a storm running a hospital in a major city. He was the son of a Baltimore grocer who had emigrated from Russia. When Rapoport was in sixth grade, he met Rosalie Greenberg on the school playground. Rosalie's parents ran a grocery store, too, and she bore the brunt of anti-Semitic remarks.

"Are you Jewish?" he asked her one day.

"Yes," Rosalie announced. "And I am proud of it."

Rapoport offered to carry her books home, and the two stopped by Rosalie's parent's grocery store where she gave him a Dixie cup of ice cream. "I thought he was kind of cute," Rosalie recalls. "He had rosy cheeks and dark hair and dark eyes."

The two attended different high schools and Rapoport left Baltimore for Franklin & Marshall College in Lancaster, Pa. During his freshman year, Rapoport's roommate told him about a blind date he had with a young woman in Baltimore. The woman said she knew someone at Franklin & Marshall, Morty Rapoport. The young woman was Rosalie Greenberg. Six weeks later, Rapoport called her, and by 1958 the two were married.

After college, Rapoport attended Maryland and graduated in 1960. He served in the U.S. Army Medical Corps from 1961 to 1967, specializing in internal medicine and conducting research in infectious diseases. After being discharged as a major, Rapoport returned to the medical school and began working his way up the ranks.

He was named assistant professor of medicine and later became professor of medicine and chief of medicine at Baltimore VA Hospital, as well as senior associate dean at the medical school.

In 1980, University Hospital was losing money, its physical plant was in disrepair, and it was technologically far behind other hospitals. Farmer had been recruited from the University of Tennessee to straighten out the problems. He was smart, intense, and a workaholic. He smoked two packs of cigarettes a day and spoke in a southern drawl.

He and Rapoport hit it off. In 1982, the two talked about the hospital's future. "We need a guy who can really understand the bottom line," Farmer said. "Are you a bottom-line man?"

Indeed, Rapoport was a "bottom-line man." And it was a bold move—perhaps even daring—to proceed without Farmer.

But operating privately, the hospital had its advantages. It could install new and more effective accounting procedures, trim costs by purchasing supplies more smartly, and control personnel. It would also have more focus. "Initially, we weren't a very good hospital," Rapo-

port says. "My success in the early years was wrestling the financial issues to the ground."

Executing Farmer's vision became a daily challenge. Powerful groups opposing the new direction lined up outside Rapoport's office urging him to step aside. "You're messing up," they told him.

Some physicians didn't like being told that they had to live within budgets, Rapoport says. His personality got in the way, too. "I was abrupt," he says. "I may have been more of a jerk than I should have been."

Even the most benign acts could wreak havoc. In 1986, Gov. Harry Hughes gave state employees an additional vacation day since Christmas fell on a Thursday. That meant that of the 3,500 medical system employees, 2,500 had the day off because they were still state employees. Without employees, patients wouldn't receive care. The governor's well intentioned decision forced Rapoport to cough up roughly \$400,000 in double-time pay.

He battled on. In spite of the internal politics, revenue improved, new talent arrived, and the hospital thrived, rivaling cross-town competitor Johns Hopkins Hospital. "I began to see that I could drive the process, and make it more like a business," Rapoport says.

Today, the University of Maryland Medical System has had its bumps and bruises, but Rapoport is proud of what he sees. He is also content in retire-

ment, traveling and spending time with his wife and 16 grandchildren, as well as serving on several boards.

There are days when he walks through his basement and reads the handwritten notes on a huge card given to him by hospital employees when he retired. They are from nurses, receptionists and people in housekeeping. "Those were the kinds of people I liked to work with. They were committed to making the place better," he says.

There are days when Rapoport thinks of Farmer, and wonders what he would have thought if he could see the medical system's transformation.

"He would have been very proud of it," Rapoport says. "It would have been confirmation of his vision. I think he would feel vindicated." ■

Today, 25 years after Rapoport led the privatization of University of Maryland Medical System, his accomplishments are far reaching and hard to dispute. From 1982 until his retirement in 2003, revenue grew more than seven fold to about \$1 billion, admissions more than doubled to roughly 50,000—up from 23,000—and five hospitals were acquired.

Three's Company

ALUMNA

PROFILE:

Dorothy Hsiao, '75



Photo by Richard Lippenholtz

The MacArthurs: Daniel, '10, Peter, '11, Alexander, '09, and mother Dorothy Hsiao, '75

WHEN DOROTHY HSIAO graduated from Maryland in 1975 she knew it would always hold a special place in her heart. Yet even she could not predict that some day not one, not two, but all three of her children would attend

her alma mater—at the same time.

Alex, the oldest, is in the class of 2009; Dan, the youngest, is in the class of 2010; and Peter, the middle son, will graduate in 2011. "To have three here at one time is very unusual, I'm certain," says Hsiao. "We're just so pleased that they are all true friends; it's just wonderful."

Sharing their medical school experience wasn't something that the boys, who use their father's surname, MacArthur, had planned to do. Alex, who has an undergraduate degree from the Massachusetts Institute of Technology, worked in engineering for four years. Peter, who has an undergraduate degree from Tufts University in Boston, also worked for four years before turning his attention to medicine. Dan, who has an undergraduate degree in chemical engineering from Brown University in Rhode Island, admits that "medicine was always in the back of my mind, so I did all the pre-med classes. Fortunately there was a lot of overlap between pre-med and chemical engineering; so it wasn't that hard," he reveals. "But then I worked for a year in Boston doing immunology research."

His path was similar to the one his mother followed. "It's really ironic how certain things play out," Hsiao admits. "I graduated from Cornell, and I really didn't want to get a PhD; I couldn't see myself doing research, and I was not interested in law. So I thought maybe medicine. I applied to a few medical schools, but it was very late; so that didn't work out. So I thought I'd go and do some work in medicine and see if I even liked it. And I ended up working in immunology in Boston."

In those days, it was much more unusual for students to have worked in between undergraduate and medical school. "I felt that I was different from a lot of my classmates, having had that life experience for two years," confesses Hsiao. "It made me very much appreciate the purpose of why I was here."

That purpose was to make a difference in her patients' lives, something she felt pediatrics would help her do best. "I felt the futility of

interviewing a 65-year old man with asthma who'd been smoking his entire life and saying, 'You really have to stop smoking if you want to get better,' and knowing that wasn't going to happen," she explains. "I thought the way to really have an impact was to start when they were young, when I could influence them and influence the parents through their children."

She admits, though, she had little influence when it came to her sons' educational pursuits. "I was shocked they all chose medicine, because none of them were really pre-med when they were in college, but I'm thrilled that they came to Maryland," she admits.

Adds Alex, "I actually think if my mom had pushed us to go to Maryland we would have been less likely to go," he says with a laugh. That independent thinking extends to the boys' choices of specialties, which don't include following mom into pediatrics. Alex is pursuing residencies in radiology and hopes to be able to stay in Baltimore, where he and his wife have made their home. Dan has been intrigued by his clinical rotation in neurology, but says it's too early yet to know what specialty he'll end up practicing. The same goes for Peter, although he has a strong interest in emergency medicine.

No matter what path the three young men choose to follow, it's a sure bet they will remain close. Not only are they currently sharing the medical school experience, they're also all sharing a home, with Peter and Dan renting rooms from Alex and his wife. "She has a heart of gold," Hsiao says of her daughter-in-law. "She had no idea what she was getting into," jokes Peter.

Aside from sharing clothes and books, the brothers also pass around advice on surviving the grind of medical school. "If they say I don't need to know such and such for the step one exam of the boards, I won't concentrate as much on it," admits Peter. "It definitely helps."

Dan says that another advantage is "I know pretty much everyone in the school, even if I actually don't know them, because they think they know me," he says with a laugh, explaining that he often gets mistaken for Peter and sometimes Alex. "It can be great for a conversation."

Another thing the brothers share is a love of sports, playing together on intramural football and basketball teams. "This is the workout generation now," says Hsiao. "We did not work out when I was in medical school. We were too exhausted. Our workout was running to class. Exercise was not something anybody talked about at

that time. So the fact that they have all these wonderful facilities they're building for the students, like the new gym, is great. Because doctors have to be role models for their patients. Not being obese, not smoking, getting regular exercise and eating well are all things that if doctors can't do them, why should their patients? That's another big difference from when I was here. They have a lot of facilities now for the students, not just lecture rooms."

The diversity of the students is another thing that has changed greatly since Hsiao's time here. "I think my class was ten percent women," she recalls.

"Now it's 55 percent or something like that," says Alex. "On top of that, there are also many more minorities in the school. There's a much richer diversity of people and backgrounds; a lot more people, as my mom

*I was shocked they all chose medicine,
because none of them were really pre-med
when they were in college, but I'm thrilled
that they came to Maryland.*

was saying before, come from different experiences. At least half my class didn't come straight out of college. Obviously, the technology is also a big change."

It certainly is. While Hsiao and her classmates scribbled notes down on paper during their hours and hours of lectures and strained their eyes studying glass slides under microscopes, now "everybody gets a laptop, all the lectures are on powerpoint; so if you miss a day of lectures it's really not a big deal because you can watch the lectures at your leisure over and over again," explains Peter.

Hsiao couldn't be prouder of the progress her alma mater has made and the way her children have been able to take advantage of it. "The Medical School serves the state well," she says. "I don't know what percentage of students stay in the state, but I know I've spent all my career in the Maryland area (she and husband Charles live in Bethesda). The school's focus on personal integrity, moral values, contact with patients and service comes through very strongly, in addition to the excellent medical education and training they provide. It's just a really great medical school." 🏡

advancement

Dinner Celebrating Diversity Promotes Scholarships

Some 170 faculty, friends, students, and alumni gathered on February 7th for the second annual Celebrating Diversity Dinner at the Hyatt Regency in Baltimore. The evening highlighted the school's commitment to diversity and reaffirmed its importance in generating progress in healthcare for under-served communities in addressing the physician shortage.

Joan Reede, MD, of Harvard Medical School served as keynote speaker. She is dean for diversity and community partnership and director of the minority faculty development program at Harvard. Reede leads the development and management of a comprehensive program that provides leadership, guidance, and support to promote the increased recruitment, retention and advancement of under-represented minority faculty at



Otha Myles, '98, wife Susie, Florence Goldner and MAA President, Ronald '65

Harvard Medical School. This charge includes oversight of all diversity activities as they relate to faculty, trainees, students and staff. Reede's outstanding leadership in community outreach and the promotion of diversity in academic medicine made her an ideal candidate to deliver the night's keynote address.

The event was organized by Maryland's office of development with the aim of highlighting the importance of diversity scholarships and encouraging donations. The Medical Alumni Association served as presenting sponsor, providing tickets to medical stu-

dents as well as prospective students. The Association of American Medical Colleges, Associated Black Charities, and ExpressCare Urgent Care Centers also served as sponsors. 

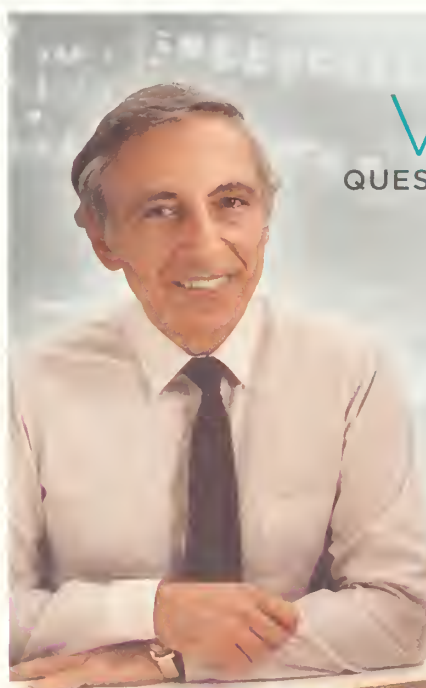


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Physician-Investor **outlook**




In this issue, the *Bulletin* magazine introduces a new section to aid physicians in their financial planning. Entitled "Physician-Investor Outlook," the column is prepared by Doug Holthaus, vice president and relationship manager at PNC Wealth Management.

Holthaus' primary role is to coordinate the resources of PNC Wealth Management with the needs of clients. His role under the Mercantile organization was the sales and marketing of the firm's retail and institutional investment management products. Prior to joining the Mercantile organization, Holthaus was a vice president of key accounts with Deutsche Asset Management. Before joining Deutsche, Holthaus was with the private client group of the investment bank Friedman, Billings, & Ramsey specializing in executive services and the development of employee stock programs for public companies. He started his career in 1993 with Legg Mason, where he held a variety of positions pertaining to the retail brokerage business.

While frustration and pessimism rule the day at the moment, it is worth considering that current valuation is likely to lead to bright days for equity investors in the coming years. We temper this optimism with the knowledge that historically the pain of further declines sometimes has continued past the point of rational calculation because extraneous influences and irrational behavior can buffet prices in the short run. This is precisely why we continue to recommend that investors work with their advisors to select an appropriate asset allocation that retains sufficient so-called "safe" assets—defined as high-quality bond holdings and cash—to provide an appropriate level of assets and cash flow to ride out the volatility in the financial markets while balancing the need to grow real purchasing power in order to reach future financial goals.

Our general recommendation is for a diversified portfolio that contains both high-quality bonds and high-quality, conservatively-financed stocks. Companies with weak balance sheets and less robust business models have a much higher risk to their survival. Investors should

focus on companies that should survive a severe economic downturn of indeterminate length and depth from the eventual recovery. Our general recommendation with equities is for an overweight to U.S. large-cap stocks and an underweight to international stocks—we believe that developed international economies may lag the United States coming out of this downturn, and we prefer to reduce foreign-exchange risk as the dollar has been shown to be a safe haven during times of global turmoil. 

This Market Update is provided by our friends at PNC Wealth Management. Mr. Holthaus can be reached at 410-237-4590 or douglas.holthaus@pnc.com

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classnotes

1930s **1935:** Samuel E. Einhorn of Highland Park, N.J., turned 100 years old February 14. **1936:** Morris J. Nicholson of Sun City, Ariz., reports overall good health as he recently celebrated his 98th birthday. He enjoys reading, watching sports on the television, occasional outings with his wife, and some vigorous walks.

1940s **1947:** Jose G. Valderas of Keller, Tex., continues travel on medical missions. He also reports that his family is well and growing.

1950s **1952:** Richard A. Sindler of Towson, Md., continues working part time doing whole body CT scanning, while wife Vicki is still in residential real estate. He reports that foreign trips are on hold during the recession. **1953:** John W. Metcalf of Steubenville, Ohio, continues working five days a week in his private practice but has retired after 18 years as Jefferson County Coroner. **1954:** Robert Ellis of Fort Collins, Colo., continues reading ECGs at Poudre Valley Hospital. **1959:** Charles B. Fletcher of Ventura, Calif., is doing volunteer work, playing in the ocean, and riding a bicycle after retiring from his career as a pediatrician. ♦ **Daniel S. Sax** of Randolph Center, Utah, enjoys working his tree farm, and during the past two years he has harvested softwoods and firewood, and he obtained several tons of boughs from the Douglas firs. The brush is used to make Christmas wreaths, and he also has had a small harvest of Christmas trees. Sax also reports that his wine cellar has been depleted with great joy, as he has reaped the benefit of enjoying wines that are now 20 and 30-years old. He has 12-year-old twin granddaughters living in Ashland, Massachusetts and a four-year-old grandson living in Clancy, Montana.

1960s **1960:** Michael J. Fellner of New York City reports that his article on new medications for delusions of parasitosis was slated for publication in the January/February issue of *Clinics in Dermatology* 2009.

1962: Louis C. Breschi of Baltimore is serving as president of the Catholic Medical Association for 2009. ♦ **John Buchman** of Studio City, Calif., extends greetings to all classmates. He recently visited Argentina and Uruguay. **1963:** Edward C. Werner of Washington, D.C., enjoyed the 45th medical school reunion last spring and is looking forward to his 50th reunion at Yale University this summer. **1964:** Rima L. Grauer of West Hartford, Conn., co-authored *Listening to the Melody of the Mind*. ♦ **Richard G. Shugarman** of West Palm Beach, Fla., received the American Academy of Ophthalmology Recognition Award in 2008. He is chief of the section on ophthalmology at Good Samaritan Medical Center. **1966:** Charles H. Classen of Kinston, N.C., is one of two councilors representing North Carolina at the American Academy of Orthopaedics. He is an affiliate professor at ECU School of Medicine where he teaches family practice residents. ♦ **Stuart L. Fine** of Philadelphia is stepping down as chairman of the department of ophthalmology at the University of Pennsylvania and director of the Scheie Eye Institute on Jun 30 after 18 years. He will continue to serve on the full-time faculty as professor of ophthalmology, participating in patient care, teaching, mentoring, clinical research, and philanthropy. Daughter Karen lives in Winston-Salem, N.C., with husband Tom and two children, while son Andy lives in Boston with wife Laura and two children. They gather together for family vacations in Colorado where they hike and swim in the summer and ski in the winter. **1968:** John G. Frizzera of Phoenix, Md., reports that all his children are married, and he is blessed with four grandchildren and two step-grandchildren. He continues working and enjoys it! **1969:** Jay S. Copeland of Bethesda, Md., closed his private practice in the Washington, D.C., area and now practices urology at the VA hospital in Martinsburg, West Virginia. ♦ **Brian Saunders** of San Diego is chairman of the board of directors for International Relief Teams, and he has made more than 30 volunteer trips to Latvia, Lithuania, and Romania to teach neonatal intensive care and resuscitation classes.

1970s **1970:** Philip A. Mackowiak of Sherwood Forest, Md., received the 2009 Theodore E. Woodward Award for Medical Education, presented by the Maryland Chapter of the American College of Physicians. The ceremony was



Dr. Mary Newman, governor of the ACP Maryland Chapter, and Philip A. Mackowiak, '70

held in Baltimore on February 6. He is professor and vice chair of the department of medicine, and director of the medical care clinical center of the VA Maryland Health-care System. ♦ **Louis Shpritz** of Owings Mills, Md., is working part time just two to three days each week with his 46-member urology group. Daughter Lisa is senior vice president with Bank of America. **1971:** Robert E. Greenspan of Alexandria, Va., is planning a second edition of his book, *Medicine: Perspectives in History and Art*. He maintains a three-room collection of medical antiques—complete with a theatre and meeting space—for visitors from around the world, while continuing in the practice of nephrology. **1972:** Roy Blank of Fort Mill, S.C., is associate professor and medical director of the physician's assistant program at Wingate University in Monroe, N.C. **1973:** Carmelo Saraceno of St. Petersburg, Fla., plans to re-enter ENT practice after teaching English at St. Petersburg College. **1974:** James "Jay"

McMillen of St. Joseph, Mo., was recipient of the 2008 top doctor award by *Ingram's Magazine*. He practices internal medicine, geriatrics, hospice and palliative medicine and is Community Health Plan's medical director. ♦ **Stephen E. Metzner** of Hagerstown, Md., completed a two-year term as president of the Funkstown Volunteer Fire company. His family medicine practice was recently purchased by Antietam Health Services. **1975: Thomas F. Krajewski** of Towson, Md., was chosen as team leader for The Older Adults Targeted Capacity Expansion Federal Grant Program. ♦ **Scott M. McCloskey** of Hickory, N.C., president of Catawba Valley Neurosurgery & Spine Services, is serving as chairman of neurosurgery for both Frye Regional Medical Center and Catawba Valley Medical Center in 2009. ♦ **Stephen Pollock** of Reisterstown, Md., is chief of cardiology at St. Joseph Hospital and has established St. Joseph Cardiovascular Associates. Son **Jeremy**, '11, is in his second year of medical school at Maryland, while son **Spencer** will begin law school at the University of Baltimore in fall. ♦ **Jeffrey** and **Sandra Quartner** of Baltimore report that daughter **Jennifer**, '06, will begin a cardiology fellowship at Maryland in July after completing her medical residency here. **1976: Michael E. Cox** of Ellicott City, Md., along with ♦ **David Posner**, '70, and seven others, have formed the Melissa L. Posner Institute for Digestive Health and Liver Disease at Mercy Medical Center. **1977: Willarda V. Edwards** of Baltimore will be installed as president of the National Medical Association in July during the organization's annual meeting in Las Vegas. **1978: Jay G. Prensky** of Camp Hill, Pa., continues practicing retinal surgery and is busier now than ever. **1979: Jeffrey D. Gaber** of Baltimore is looking forward to seeing everyone at the 30th reunion in May. He reports that wife **Sydney** and their three children are well. Gaber enjoys playing golf, the drums, and is an amateur photographer. He has offices in Pikesville and Baltimore City.

1980: David B. Matchar of Chapel Hill, N.C., is director of the health services research program at the new Duke-National University of Singapore Medical School. He continues as professor of medicine and director of the Duke Center for Clinical Health Policy Research. **1982: Darryl B. Kurland** of Princeton, N.J., reports that son **Jason** has accepted a two-year nephrology fellowship at Brown beginning in July, following completion of his internal medicine residency there. Son **Brian** is working at Macy's and applying to MBA programs after graduating Summa Cum Laude from Northeastern University in May 2008. Kurland continues his virology research at Tibotec Pharmaceuticals which is part of Johnson & Johnson. **1985: Peter R. Gray** of Glens Fall, N.Y., practices cardiology, and he enjoys telemark and back country skiing in the Adirondack Mountains. **1986: Lee Kleiman** of Severna Park, Md., founded a medical technology company www.sleepapneatechnology.com. **1988: Charles Berul** of Needham, Mass., is moving back to Maryland in September and will assume the position of division chief of cardiology at Children's National Medical Center. **1989: Louis I. Bezold** of Midway, Ky., is medical director of Kentucky Children's Hospital where he also serves as co-director of its heart center. ♦ **Babak J. Jamasbi** of San Rafael, Calif., in 1998 founded Pain and Rehabilitative Consultants Medical Group. It has grown to become one of the largest multi-disciplinary pain clinics in northern California. He and wife **Penelope** have three children, **Leila**, age ten, **Kameron**, age eight, and **Alex**, age five. ♦ **Glenn L. Sandler** of Rockville, Md., is a general surgeon and director of the breast screening program at Shady Grove Hospital. He practices with **Craig Colliver**, '93.

1991: Michael A. Dias of Phoenix, Md., is physician-in-chief for the Mid-Atlantic Permanente Medical Group in Baltimore. **1994: Faina V. Caplan** of York, Pa., is looking forward to the 15th reunion in May. She continues her career in geriatrics and last year took a certification exam in hospice and palliative care. She and husband **Steven** added a dog (**Annie**) and two hermit crabs (**Coco & Loco**) to the family. ♦ **Aaron R. Twigg** and wife **Allison** of Mount Airy, Md., report the birth of **Heather Mae**, their third, in 2008. Twigg practices physical medicine.

2002: Sanford Katz of Shreveport, La., reports that Reese's Peanut Butter Cups are his favorite. ♦ **Scott M. Katzen** of Columbia, Md., is planning one additional year of interventional cardiology training at Maryland, following completion of his cardiology fellowship here. **2003: Abbe Penziner** of Brooklyn, N.Y., is a pediatric attending at Maimonides Medical Center. **2004: Sean Khozin** of New York City co-founded a new healthcare delivery system: Hello Health (www.hellohealth.com). The effort is receiving a great deal of exposure as a revolutionary new paradigm for healthcare delivery in America. **2005: Bryan Loefler** and wife **Jennifer** of Charlotte, N.C., announce the birth of **Grant Liberto**, their first, on October 23, 2008. **2007: Ryan Ann Housam** of Pittsburgh married **Jason Fitzgerald** in April. 🏠

Remembered

James Frenkil, '37

James Frenkil, a 1937 graduate who will be remembered as one of the medical school's most loyal alumni, passed away on February 7.

Born in Baltimore on September 16, 1912, Frenkil attended Forest Park High School where he won the Mid-Atlantic Pole Vaulting Championship during his senior year. He enrolled at Johns Hopkins University, accelerating his studies and graduating in three years. Frenkil then attended medical school, graduating in 1937. He interned at Gallinger Municipal Hospital in Washington, D.C., and was a resident at the Casualty Hospital, also in Washington.

Entering the military in 1943 during World War II, Frenkil completed training in courses at various Army Hospitals and received an aviation medicine degree. A captain, he was assigned as squadron medical officer for a B-29 Superfortress command in Calcutta, India, where he conducted research on tropical diseases and participated in the testing of sulfaguanidine to prevent dysentery among the troops.

Frenkil received his military discharge in 1946 and returned to Baltimore where he built Central Medical Centers, the largest pure occupational medical practice on the Eastern Seaboard and one of the largest in the United States. At its height, Central Medical Centers employed 100 medical personnel and treated 600 patients a day at five locations. He sold the practice to Dunn & Bradstreet in the late 1960s, only to buy it back a few years later. Frenkil's affiliations included Proctor & Gamble, Chessie Systems, Pan American Airlines, Bethlehem Steel, General Motors, and the Maryland Mass Transit Authority. He was a member of the staffs of North Charles General,



Sinai, South Baltimore General, and Lutheran hospitals, and he was recruited by Maryland's governor to serve as chairman of the Maryland Occupational Disease Board and as a member of the Governor's Health Conference during the 1960s.

Working with a faculty member at Johns Hopkins University, Frenkil established a course in occupational medicine for students studying public health. He was a lecturer there, as well as at the University of Baltimore School of Law. Frenkil also served as the occupational editor for the *Southern Medical Journal*, and he authored numerous articles related to his specialty.

Never straying far from his medical school, Frenkil was a frequent lecturer in

the departments of pathology and oncology. He called his classmates each year during a phonathon in support of the medical school, and he helped organize a class reunion every five years. Frenkil was elected president of the alumni association in 1987 and for several years was a member of the medical school's board of visitors. In 1995, he donated his five-story office building on Eutaw Street to the medical school. The Medical Alumni Association honored him in 1997, granting Frenkil honorary lifetime board status. This recognition has been bestowed just twice in the association's 134-year history.

The Maryland Boy Scouts, Baltimore Goodwill Industries, the Baltimore Rotary Club, and Catholic Youth Organization also benefitted from Frenkil's organizational skills and generosity. Survivors include wife Carolyn, two children, two step-children, six grandchildren and four great-grandchildren. 🏠

in memoriam

Hedley E. Rutland, '33

York, Pa.

February 4, 2009

Dr. Hedley received training at York Hospital before opening a general practice serving primarily the west York area. During his career which ended with retirement in 1976, Hedley served as president of the York County Medical Society where, at age 102, he was its oldest living member. He is survived by one son, one daughter, seven grandchildren, and nine great-grandchildren. Hedley was preceded in death by wife Grace and son Thomas.

Kenneth L. Zierler, '41

New Paltz, N.Y.

January 18, 2009

Sinai Hospital in Baltimore was the site of Dr. Zierler's internship, followed by residency training at the New York University Division of Goldwater Memorial Hospital in New York City. Zierler served as professor of medicine and physiology at the Johns Hopkins University School of Medicine. He authored more than 300 publications, mostly in clinical investigation and focusing on metabolism and mechanisms of insulin action and blood flow. He was also active in social causes for human rights. Zierler enjoyed woodworking and was preceded in death by wife Margery. He is survived by four daughters, one son, six grandchildren, and three great-grandchildren.

Albert Grant, '43D

Boynton Beach, Fla.

February 5, 2009

Dr. Grant graduated as Albert Gubnitsky. He interned at Lincoln Hospital in Bronx, N.Y., before serving two years as a battalion surgeon with the 106th infantry, 27th division of the U.S. Army during World War II. He was discharged in 1946 as a captain. Grant returned to Baltimore for one year as assistant resident at Lutheran Hospital and completed residency training in internal medicine at the VA Hospital in Louisville, Ky. Back in Baltimore in 1949, he opened a private internal medicine practice which

he maintained until 1961. Grant served on the staffs of Lutheran, Franklin Square, and Sinai hospitals. He served as director for the state's first comprehensive cardiac rehabilitation program at Sinai Hospital and instructor at Maryland, conducting research on exercise training for acute and chronic coronary patients in the department of rehabilitation medicine. Grant moved to Selbyville, Del., and later Boynton Beach, Fla., where he served as director of CPR and automatic external defibrillator training at his Coral Lakes community. Grant enjoyed travel in his recreational vehicle. He is survived by wife Mignon, four sons, and five grandchildren, and he was preceded in death by first wife Sara.

Louis J. Pratt Jr., '44

Timonium, Md.

January 26, 2009

Upon receiving his medical degree, Dr. Pratt enlisted in the U.S. Air Force, serving as a flight surgeon in the Caribbean. He was discharged in 1945 and returned to Baltimore for training at St. Joseph Hospital. After working briefly as the company physician for Emerson Drug Co., Pratt established a pediatric practice in Baltimore. He also conducted well baby clinics as a volunteer physician with Baltimore County and served as team physician for the Loch Raven High School football team. Pratt retired in 1989. He was a member of the St. Andrew's Society and the Hibernian Society, and he served as a board member for the St. George's Society. Pratt was also a board member of the Paint and Powder Club and performed in its annual musicals to raise money for charitable causes. He maintained a home in Cape May, N.J., where he enjoyed reading, spending time on the beach, and riding waves. Pratt is survived by wife Miriam, one son, one daughter, and three grandchildren.

James A. Roberts, '46

Silver Spring, Md.

January 28, 2009

Dr. Roberts interned at Baltimore's Mercy Hospital before serving in the U.S. Navy

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during World War II. Upon completion of military service, he returned to Mercy for one year as an assistant resident, and then received two years of additional training at Johns Hopkins Hospital from 1950 to 1952. Roberts maintained a private practice in internal medicine for 31 years in Silver Spring, Md., retiring in 1989. Shortly after retirement, he relocated to Ocean Pines, Md., where he served on the city's civic association and as vice president of its tennis club. He was active in Habitat for Humanity and Knights of Columbus, and he served as a reader and Eucharistic minister at his church. An active alumni member, Roberts served as captain for his medical school class, organizing reunions and, in 1977, was elected president of the Medical Alumni Association. In 2006, he joined the Elm Society of the John Beale Davidge Alliance, the medical school's society for major donors. In addition to playing tennis he enjoyed bike riding. Roberts was preceded in death by brother **Robert R. Roberts, '54**, and is survived by wife Mary Adele, seven children, ten grandchildren, and one great-grandchild.

Sidney Sacks, '46

Ft. Lauderdale, Fla.

February 28, 2009

Dr. Sacks received training in New York, Baltimore, and San Francisco, and then enlisted in the U.S. Army where he received additional training in plastic surgery. After a brief medical career in California practicing general medicine and surgery in a private setting, Sacks developed and managed several real estate properties in California, New Jersey, Texas, and Florida where he relocated in the 1960s. Beginning in the 1990s, Sacks bred thoroughbred horses which he raced primarily in Florida. Sacks is survived by cousin **Sylvan Frieman, '53**

William A. Pillsbury, '52

Timonium, Md.

February 1, 2009

Dr. Pillsbury was president of his class. He practiced industrial medicine and served as the attending physician for Baltimore Gas & Electric. He enjoyed the opera, and is survived by wife Vertalee, three daughters, one son, five grandchildren, and two great-grandchildren.

Arthur C. Knight, '53

Clinton, Mont.

September 16, 2008

Upon graduation, Dr. Knight trained at Bon Secours Hospital in Baltimore and specialized in administrative medicine. He returned to Montana in 1958 to serve as superintendent of the state's Tuberculosis Hospital in Galen. He was a staff physician at the University of Montana Health Service in Missoula and, in 1975, was appointed

head of the Montana State Department of Health and Environmental Sciences. His final appointment prior to retirement was caring for veterans at Fort Harrison. Knight was a fellow of the American College of Chest Physicians and once served as the college's governor for Montana. He enjoyed skiing, horseback riding, and spending time at his Echo Lake ranch. Knight is survived by wife Lee, nine children and ten grandchildren. His father, **Arthur C. Knight**, graduated from Maryland in 1909.

Rev. Leslie R. Miles, '53

Lonaconing, Md.

January 11, 2009

Prior to medical school, Dr. Miles served as a medic in the U.S. Army's 285th Combat Engineer Battalion ETO, 3rd Army, during World War II, earning three Battle Stars while serving in Ardennes, Rhineland, and Central Europe. Upon medical school graduation, he received training at Win-

chester Memorial Hospital in Virginia and opened a practice of general medicine in Lonaconing from 1955 to 1980. From 1980 to 1990, he was vice president of medical affairs for Sacred Heart Hospital and also served on its board of directors. From 1992 until retirement in 2003, Miles was medical director at the Egle Nursing Home. Professional appointments include president of the Allegany County Medical Society, president of the staffs of Frostberg Community Hospital and Sacred Heart Medical Hospital where he established the department of family practice in 1970 and served as its chairman for eight years. In 1972, Miles was ordained an Episcopal priest and was Vicar of St. Peter's Episcopal Church for 30 years. He enjoyed playing golf. Miles was preceded in death by wife Donna and two sons, and he is survived by one son, one daughter, seven grandchildren, and four great-grandchildren. 🏠

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Schedule

134th Medical Alumni Association Reunion May 1-3, 2009

Friday, May 1

8:30-10:30 am	Open House, Check-in & Continental Breakfast
9:00-9:45 am	Financial, Retirement, & Estate Planning
10:00-11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am-1:15 pm	134th MAA Luncheon & Business Meeting, Westminster Hall
1:30-3:00 pm	16th Historical Clinicopathological Conference
1:30-3:30 pm	Afternoon Check-in, Davidge Hall
3:30-4:30 pm	School of Medicine Tour
6:30-9:30 pm	The MAA Crab Feast, Baltimore Museum of Industry

Saturday, May 2

8:00 am-1:30 pm	Open House & Check-In
8:30-10:00 am	Continental Breakfast, Davidge Hall
9:00 am-1:00 pm	Excursion to U.S. Naval Academy, Annapolis, Md
10:00-11:00 am	Campus Walking Tour
11:00-11:45 am	Restoring Davidge Hall: An Update
11:30 am-2:00 pm	Complimentary Picnic, Davidge Hall
1:00-1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00-2:30 pm	Baltimore City Land & Sea Tour I
Afternoon/Evening	Class Reunions (years ending in "4" and "9")

Sunday, May 3

10:00 am-1:00 pm
Brunch with the Dean,
The Reginald F. Lewis
Museum of Maryland
African-American
History & Culture

University of Maryland

MedicineBulletin

Summer 2009 • Volume 94 • Number 1

**Leading the Pack:
Maryland's Institute for
Genome Sciences**





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MedicineBulletin

University of Maryland Medical Alumni Association & School of Medicine



Leading the Pack 8

Maryland's Institute for Genome Sciences

Maryland knew what it was getting by recruiting Claire M. Fraser-Liggett, PhD, to run its institute for genome sciences. The most highly cited scientist in the field of microbiology brought along most of her team and all of their challenges.

On the cover: Claire M. Fraser-Liggett, PhD, director of the Institute for Genome Sciences. Photo by Richard Lippenholz



Giants in the Nursery 13

The Department of Pediatrics

Now consisting of 19 divisions with 122 faculty members, pediatrics enjoys a top-20 ranking among medical schools based on NIH funding. The joint Commission on Accreditation of Hospitals continues offering its high praise, affirming chairman Steven Czinn's belief that pediatric care at Maryland is one of the state's jewels.



The 134th Medical Alumni Association Reunion 18

This year's reunion highlighted classes ending in "4" and "9" with a spotlight on the 50-year anniversary celebration of the class of 1959. In addition to class parties, the three-day event featured the historical clinicopathological conference, a crab feast, and a brunch with the dean.



Alumnus Profile: Maurice N. Reid, '99 32

Going It Alone

Six years after graduation, Maurice N. Reid, '99, was on the verge of having it all. He was clinical director for the emergency department at Bon Secours in Baltimore, and had a wonderful wife and family. But against the advice of some family and friends, he abruptly left his job to open his own business—an urgent care center. Since that time, he has added three more.

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On March 9, 2009, President Barack Obama signed an executive order rolling back the previous administration's restrictions on federal funding for human embryonic stem cell (HESC) research. Although lifting the ban on federal support for HESC research is only a symbolic first step, it was seen by many as a monumental milestone because the field has become largely stagnant as a result of the ban.

Now that researchers can pursue studies of HESCs without fear of losing their federal funding if they do, it will likely deepen our understanding of cell differentiation, human development, and birth defects. It also is believed that lifting the federal ban will induce more skilled investigators to enter the field. Indeed, the federal ban made it extremely difficult to attract young or new researchers to stem cell research, while prompting many established investigators to look elsewhere to conduct their research. A survey conducted by researchers at Princeton University in 2006 found that senior stem cell researchers were more than five times more likely than senior scientists in other biomedical fields to receive at least one international job offer. An estimated 12 percent were even seriously considering leaving the country to pursue their research as a result of the federal ban!

Anticipating this change in federal policy toward HESC research, the University of Maryland School of Medicine has moved aggressively in recent months to position itself to take a leadership role in this arena. Late last year, we recruited **Curt I. Civin, MD**, to join the medical school. Dr. Civin, a pioneer in cancer research and stem cell biology, is known for developing a way to isolate stem cells from other blood cells. He comes to us from the Johns Hopkins University School of Medicine. To solidify this leadership position, we established the new center for stem cell biology and regenerative medicine, headed by Dr. Civin.

With the recruitment of Dr. Civin, who brought his entire research team and more than \$21 million in extramural research funding with him, we are now poised, along with Johns Hopkins University, to bring the state of Maryland to the forefront of research into stem cells and regenerative medicine. Our governor, Martin O'Malley, deserves significant credit for putting us in such a prominent position. He made an early commitment to provide state funding for stem cell research and has increased funding this year despite the dismal fiscal climate.

In recognition of our growing expertise and leadership in stem cell research, the University of Maryland will co-host the World Stem Cell Summit in Baltimore next fall in conjunction with the Johns Hopkins University. To maximize the potential of stem cell research, the 2009 World Stem Cell Summit will address the field's most pressing needs including: progressive research strategies, translational and preclinical findings, cross disciplinary initiatives, drug discovery, funding opportunities (federal, public, and private), commercialization plans, technology transfer platforms, venture capital insights, market trends, regulatory issues, and ethical and societal implications. It also will tackle such diverse topics as philanthropic opportunities, medical tourism challenges, cell-banking projects, intellectual property landscapes, insurance questions, international perspectives, clinical applications, and the 2009–10 advocacy agenda.

The new administration's reversal of the previous ban on federal funding for HESC research is a good sign. It means that stem cell researchers can now move forward and make new plans for how to do that. However, an executive order alone will not be enough. To mature, this field needs a coordinated effort between federal, state, and private funders to map out priorities and to ensure that all high priority projects are funded. The World Stem Cell Summit here in Baltimore this fall, with our medical school in a significant leadership role, will play a major part in bringing about a coordinated focus and agenda to the field. 🏛️



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
University of Maryland
John Z. and Akiko K. Bowers Distinguished
Professor and Dean, School of Medicine

EVENTS Symposium & Gala Mark Anniversary of AIDS Discovery

Robert Gallo, MD, director of Maryland's institute of human virology, was joined by French scientist Dr. Luc Montagnier for a symposium and gala in Baltimore to mark the 25th anniversary of their co-discovery of HIV as the cause of AIDS.

Co-hosted by the University of Maryland School of Medicine and the National Cancer Institute, the symposium looked back at the origins of research on human retroviruses, progress on combating the virus through a successful research enterprise, and obstacles that still need to be overcome in treatment and prevention for the global AIDS epidemic. The program was attended by the world's leading HIV/AIDS researchers.

Gallo has headed Maryland's institute since 1996, and his work has delivered life-saving medications to approximately a quarter-million HIV-infected patients in Africa. In addition, six separate clinics staffed by institute professionals serve more than 4,000 patients in Baltimore.

The Gala, entitled "Celebrating a Visionary's Quest for Discovery," was held at the Baltimore Hilton. Among



Dr. Luc Montagnier and Robert Gallo, MD, at a press conference prior to the symposium

the 300 guests were Anthony S. Fauci, MD, head of the National Institute of Allergy and Infectious Diseases, and former Maryland Lt. Governor Kathleen Kennedy Townsend.

EVENTS Run for Celiac Disease



Despite the rain, the Eighth International Run/Walk for Celiac Disease—*Making Tracks for Celiacs*—attracted more than 600 participants on May 3. And the \$60,000 raised by the event will support Maryland's center for celiac research. Along the route runners and walkers had the opportunity to sample gluten-free food prepared by a host of Baltimore vendors.

Transitions



Appointments

Frank M. Calia, MD, MACP, the Dr. Theodore E. Woodward Chair in Medicine, was named vice dean for clinical affairs. In this position he is exploring new program developments and working to create fresh initiatives to strengthen the school's clinical affairs effort in both the medical center as well as the University of Maryland Medical System.

Calia has served as chair of medicine since the 2005 resignation of **William Henrich, MD**. Since joining the faculty in 1969, Calia has held several titles including professor in the departments of medicine and microbiology & immunology, chief of the medical service for the Baltimore VA Medical Center, vice dean, and acting chair for medicine.

His major interests are in infectious disease, bacterial diarrhea, vibrio infections, staphylococcal infections, and clinical pharmacology. He has been honored with more than 25 teaching awards including the golden apple. He is recipient of a teacher of the year awards by the Maryland Higher Education Council and University System of Maryland. In 2005, the MAA honored the Tufts University medical school graduate with honorary membership in its organization. Calia is holding both appointments until a successor is named in the department of medicine.



Mandeep R. Mehra, MBBS, FAC, FACP, the Dr. Herbert Berger Professor in Medicine and head of the division of cardiology, was named assistant dean for Clinical Services. Mehra is working to ensure patients have the greatest access possible to the various faculty practices of the medical school. He is charged with enhancing the efficiency and effectiveness of the process that smoothly facilitates access for patients from external institutions and locations, especially medical system institutions, into the faculty practices and the medical center. He is also working with Dr. Calia on a variety of projects.

Mehra has been a member of the faculty since 2005. He earned his medical degree from the Mahatma Gandhi Institute of Medical Sciences in Sevagram, India. He came to Maryland from the Ochsner Clinic Foundation in New Orleans, La., where he was vice-chair for clinical and academic affairs in the department of cardiovascular medicine and chief of cardiomyopathy and heart transplantation at the Ochsner Multi-Organ Transplant Center. His research has explored advanced heart failure and cardiac transplantation, including various treatments and alternatives to transplantation.

Rajabrata Sarkar, MD, PhD, an expert in treating blood vessel disorders and a nationally known researcher in blood vessel growth and development, was appointed professor of surgery and head of the division of vascular surgery. He also becomes chief of vascular surgery at the medical center.

Sarkar comes to Maryland from the University of California, San Francisco, where he was an associate professor of surgery with tenure and a vascular surgeon since 1999. He received his medical degree and PhD in physiology from the University of Michigan. He completed surgical training at UCLA and was trained in vascular surgery at the University of Michigan.

Some people with blocked arteries are fortunate in that their bodies are naturally able to grow new vessels to allow the flow of blood in spite of the blockage. Sarkar has been trying to understand how to initiate that process and grow new arteries in order to compensate for blocked ones. He is also studying how certain risk factors, including smoking, diabetes, high cholesterol, high blood pressure—all prevalent among Americans today—prohibit that growth of new vessels.



Retirement

David J. Ramsay, DM, DPhil, is retiring as president of the University of Maryland Baltimore after 15 years at the helm. He will be remembered for his success in unifying the campus, consisting of professional and graduate schools responsible for training the majority of the state's physicians, nurses, dentists, lawyers, social workers, and pharmacists. He is credited with significantly upgrading the physical plant on campus, as several buildings—including a health sciences and human services library and campus center—were constructed during his tenure. Ramsay also played a key role in advancing Baltimore's west side re-development, including creation of the University of Maryland Biotechnology Park on Baltimore Street west of Martin Luther King Drive.

Ramsay joined the university in June 1994 from the University of California, San Francisco, where he had served on the faculty in the department of physiology since 1974 and for 12 years was senior vice chancellor of academic affairs. He will remain as UMB president until a successor is announced by the board of regents.



Ronald B. Gartenhaus, MD

Alcohol Reduces Risk of Lymphoma

Drinking alcohol is a known risk factor for many types of cancer, but studies also have shown that moderate alcohol consumption may actually decrease the risk of developing certain cancers, such as lymphoma. Now,

Maryland researchers have identified a molecular mechanism that helps explain how alcohol protects against non-Hodgkin's lymphoma, the most common form of lymphoma.

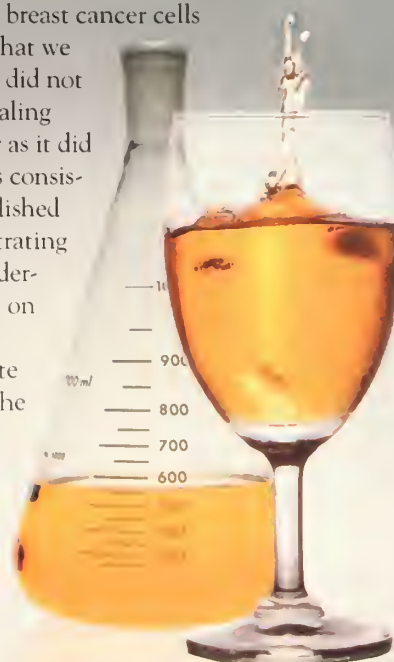
The scientists reported in an online edition of the journal *Blood* that low-dose, chronic exposure to ethanol—regardless of whether the source is beer, wine or other types of alcoholic beverages—inhibits activity of the protein mTOR. This protein plays a key role in controlling important cellular processes, including the regulation of cell growth. Researchers found that the equivalent of several drinks a day resulted in “a striking inhibition of lymphoma growth” in mouse models.

“We’re not saying that people should have a couple of drinks a day to reduce their risk of developing lymphoma. But we believe that having a better understanding of this process may lead to more effective, targeted therapies to treat lymphoma and possibly prevent it. We hope to develop new compounds that will mimic the effect of alcohol, targeting the molecules that interact with this master regulatory molecule,” says **Ronald B. Gartenhaus, MD**, the study's senior author.

Gartenhaus, an associate professor of medicine and researcher at the Marlene and Stewart Greenebaum Cancer

Center, is continuing his research into lymphoma development, searching for other molecules involved in mTOR inhibition. “We’re looking to develop very potent inhibitors of these molecules that will serve the same purpose as alcohol, only better,” he says.

Patrick R. Hagner, a graduate research assistant at Maryland and the study's lead author, says the study looked at the effect of alcohol on both breast cancer cells and lymphoma cells. “What we found is that the alcohol did not suppress the mTOR signaling pathway in breast cancer as it did in lymphoma, which was consistent with previously published clinical findings demonstrating a protective effect of moderate alcohol consumption on lymphoma development in contrast to the opposite effect for breast cancer,” he says. Results of the study are available online in a First Edition of *Blood*, which is published by the American Society of Hematology.



Minimally Invasive Surgical Firsts

The medical center became the first hospital in Baltimore and only the third in the United States to perform a single-port, natural orifice kidney removal surgery through the navel for a living kidney donor. During the procedure, surgeons used a single opening in the navel as they manipulated a camera and two laparoscopic instruments to separate the kidney from its attachments in the abdomen. The kidney was then removed through that same opening. Only a tiny bandage was required to close the navel of the 22-year-old female patient, and there were no scars.

"This is the next advance in organ donation, and we are pleased to be able to offer this procedure to patients who are doing a very altruistic thing by donating a kidney. It is another way we can say thanks to the very special people who are organ donors," says **Rolf Barth, MD**, a transplant surgeon at the center and assistant professor of surgery at the medical school. Barth led the surgical team as they performed the single-incision kidney removal on April 15. He adds, "Most kidney donors would qualify for this new approach."

Laparoscopic removal of donor kidneys, which Maryland surgeons have performed since March 1996, has become the norm. That approach requires three or four tiny openings in the abdomen to insert a camera and instruments, and a four-inch incision to lift out the kidney. "The single incision is the next step in promoting safe organ donation," says **Benjamin Philosophe, MD, PhD**, director of the division of transplantation at the center and associate professor of surgery at the medical school who participated in this landmark surgery. "The traditional laparoscopic approach has a long track record of minimal risk and quick recovery, but it is likely that the single-port technique will be even better since there is only one small incision."



Rolf Barth, MD

The kidney was successfully transplanted into a 54-year-old Baltimore woman.

Two weeks earlier—on March 31—cardiac surgeons at the center performed a rare triple bypass heart surgery using robotic assistance. This procedure, which does not require any large incisions, presents a durable alternative to open-heart surgery for patients with multiple blocked coronary arteries. With this minimally invasive procedure, patients can have a much shorter recovery time and return to their normal lives much sooner.

Maryland became the second institution in the United States to perform robot-assisted triple bypass

and the first in the world to achieve the triple bypass using an advanced, minimally-invasive heart-lung machine. The medical center's first patient to benefit from robot-assisted triple bypass was a 67-year-old male from Cheektowaga, N.Y. He left the hospital four days later and was able to fly home just nine days thereafter.

"The majority of patients who require bypass surgery have more than two blocked arteries going into the heart," says **Johannes Bonatti, MD**, a cardiac surgeon at the center and professor of surgery at the medical school who performed the pioneering surgery. "Our ability to bypass three vessels now means that many more patients can benefit from this minimally invasive, robot-assisted heart surgery."

With traditional open-heart surgery, in which the sternum is cut open to reveal the heart, three or more bypasses are routine. People who undergo such open-heart surgery typically require two or three months to heal. They also face a higher risk of infection.

By contrast, robot-assisted surgery offers several key advantages over traditional open-heart procedures. These include no need to split the chest open and no incisions: just three or four dime-sized openings to insert robotic tools and a camera. Recovery is usually a two-to-three week period with a quick return to normal activities, as well as reduced risk of infection and other complications. 🏠



**She thinks her mole
was always that size.**

What she doesn't know is that she will be diagnosed with skin cancer. She doesn't know that she'll go to the University of Maryland Marlene and Stewart Greenebaum Cancer Center for treatment, or that through their team approach she'll have total access to key specialists in surgical oncology, plastic surgery, dermatology, dermatopathology, interventional radiology, medical oncology and radiation oncology. She doesn't know they host major clinical trials in skin cancer, or that their expertise and personal care will help her to make a speedy recovery.



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Leading the Pack



Claire M. Fraser-Liggett, PhD

Maryland's Institute for Genome Sciences

There's an old idiom that says: "If you are ahead of the pack, you have made more progress than your rivals." Leading the pack in science is often a good position to be in. It not only means you've made more discoveries than others in your field but eventually you get more of the glory. However, being too far ahead of the pack can have its drawbacks—especially if the tools or technologies you need to make progress don't yet exist.



By Jim Swyers, MA

This is a situation faced by researchers of the new University of Maryland School of Medicine Institute for Genome Sciences, or IGS. They not only have to be Jacks and Jills of all trades to keep their research projects running, but others in the field of genomic research look to them for innovation as well.

IGS is headed by Claire M. Fraser-Liggett, PhD, who came to Maryland from The Institute for Genomic Research (TIGR) in Rockville, Md. Fraser-Liggett was the president and director of research for TIGR for almost a decade. Under her leadership, TIGR researchers were intimately involved in a number of high-profile genome projects. Their work provided the first glimpses of the inner workings of some of the worst scourges to have plagued mankind, including cholera, malaria, tuberculosis, pneumonia, syphilis, Lyme disease, and hospital-acquired infections and food-borne illnesses. And, they developed many new experimental and computational approaches for the human genome project.

During Fraser-Liggett's tenure as TIGR's director, she was the most highly cited scientist in the field of microbiology. Federal funding to the TIGR tripled from \$20 million to \$60 million per year under her leadership. Because of TIGR's growing expertise in the genomes of microbes, in 2001, the FBI enlisted some of its top investigators to help hunt down the source of anthrax that was sent through the mail to politicians and journalists. TIGR researchers discovered a unique set of genetic mutations in the anthrax bacterium that were sent through the mail and used that "genetic fingerprint" to identify the master flask at Fort Detrick, Md., from which the anthrax was taken. Although the FBI's prime suspect in the case committed suicide before he could be charged, Fraser-Liggett recently told the *New York Times*, "I'm absolutely convinced the

FBI has the right source flask." She added in that article, however, that she was not prepared to opine as to who the perpetrator might be.

Fraser-Liggett left TIGR in 2007 when it was absorbed into the J. Craig Venter Institute. Fifteen senior TIGR researchers followed her to Maryland to help form IGS, giving it instant world-class expertise and visibility. "IGS is now recognized as one of the leading institutes in the world for microbial genomics," says Fraser-Liggett.

Identifying Microbes

Microbes, which consist of bacteria, viruses, fungi, protozoa, and a relatively new group known as archaea, are the oldest form of life on earth, dating back approximately 3.8 billion years. By some estimates, microbes make up about 60 percent of the earth's biomass. However, less than 1 percent of the known microbial species have been identified and studied.

Compared to humans, the genomes of microbes are relatively tiny. The human genome, for example, contains 24 chromosomes and approximately 25,000 genes. In contrast, a bacterial genome typically has only one chromosome and a few hundred to a few thousand genes at most.

IGS moved into its gleaming new offices and laboratories in the University of Maryland BioPark this spring. Its walls are adorned with cover designs of the many high-profile journal articles published by its investigators. The more than 50,000 square feet of space is dotted with cozy little alcoves that are just right for impromptu brain-storming sessions and small, informal meetings. The collective work of the IGS team has identified more than ten times the number of genes found in the human genome. And they now have the capacity to identify many, many more. IGS' nine DNA sequencers, three of which are the newest and

IGS' nine DNA sequencers, three of which are the newest and fastest available, can sequence an astounding 565 billion bases per year or more than 10 billion bases per week. That's equivalent to about three human genomes per week.

fastest available, can sequence an astounding 565 billion bases per year or more than 10 billion bases per week. That's equivalent to about three human genomes per week.

One of the major advantages of being part of a medical school is ready access to patient samples. IGS, which currently boasts 80 full-time staff, including 17 senior faculty, has research projects studying the genomes of microbes found in every major organ system in the body.

Fraser-Liggett's own laboratory is studying the microbial population, or microbiota, naturally present in the human gastrointestinal tract. There's evidence that the changes in the microbiota of the colon can contribute to at least several intestinal diseases, including colon cancer, inflammatory bowel disease, and even obesity.

"If there are certain bacterial communities in the colon associated with cancer or inflammation or nutrient absorption disorders, we would like to know what happens to those communities as they change from beneficial to damaging. It is possible we may be able to develop a genetic fingerprint for a particular disease," explains Fraser-Liggett.

The ultimate outcome of such a finding would be a more individualized approach to treatment for gastrointestinal diseases. "By knowing the code for what makes bacteria do what they do, we hope to be able to develop better strategies to control them if they cause disease, or maintain them if they're important for good health," adds Fraser-Liggett.

Jacques Ravel, PhD, who followed Fraser-Liggett to Maryland from TIGR, and who was a leading member of the team that decoded the DNA of the anthrax strains for the FBI's investigation, also studies the microbes inhabiting the gastrointestinal tract and their link to celiac disease. Celiac disease is an autoimmune condition characterized by sensitivity to gluten, a protein found in wheat. His

group is collaborating with Alessio Fasano MD, director of the University of Maryland School of Medicine



Hervé Tettelin, PhD

Center for Celiac Research on a project to determine how celiac disease affects the microbiota of the intestine and vice-versa. To do this, they're collecting and analyzing the stool samples from a group of babies at birth and then comparing those "baseline" microbiota readings to the children as they get older.

"We're comparing the microbiota of children on a gluten-free diet versus a gluten-added diet to see what happens to the GI microbes as a result of the autoimmune reaction to gluten," says Ravel, whose laboratory also is investigating the microbial communities associated with the female reproductive tract.

In addition to microbes that coexist with but normally do not harm people, IGS researchers have a dual focus on those microbes that people don't often come in contact with and that can put them at risk for serious disease and even death when they do. For example, Hervé Tettelin, PhD, another transplant from TIGR, is leading a group studying the genomes of microbes that cause bacterial meningitis. An infection of the lining of the brain or the spinal cord, bacterial meningitis can result in brain damage and even death if not quickly diagnosed and treated with the correct antibiotic. It is most commonly caused by one of three types of bacteria: *Haemophilus influenzae* type b, *Neisseria meningitidis*, and *Streptococcus pneumoniae* bacteria.

To develop a preventive vaccine against bacterial meningitis, Tettelin and his group are interested in which of the hundreds of proteins that protrude from the surface of these three types bacteria elicit the greatest immune

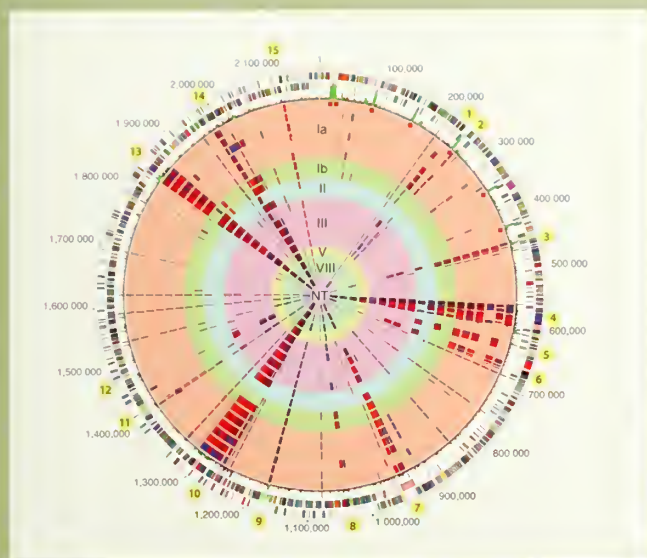
response. Using genomics and what he describes as some "heavy duty" bioinformatics, Tettelin's group was able to whittle down that list to only a handful of highly immune-stimulating, or antigenic, candidates. A new vaccine again based on those surface proteins is now in Phase III clinical trials to prevent bacterial meningitis caused by *Neisseria meningitidis*.

For another of its projects, Tettelin's group is designing a novel database to house and compare the genomes of very closely related microbes. With



At left: *Neisseria meningitidis*
Above: Anthrax spores

By knowing the code for what makes bacteria do what it does, we hope to be able to develop better strategies to control them if they cause disease, or maintain them if they're important for good health.



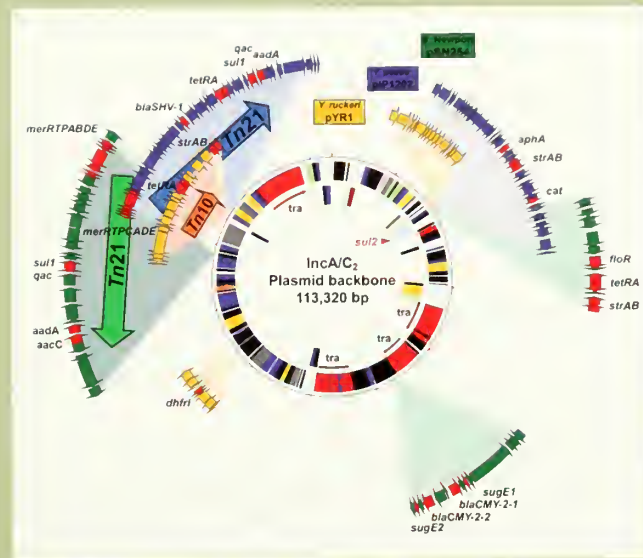
Genome diversity map of group B Strep based on microarrays. Courtesy of Hervé Tettelin, PhD.

the cost of sequencing DNA becoming increasingly less expensive, it is possible to rapidly sequence the genomes of many microbes. The idea behind Tettelin's database is to study how slight genetic differences can lead to significant outward changes.

"We're loading all these genomes from very similar microbes into this database to look at the small genomic differences between them that might tell us why one is benign and the other, which is very similar, causes disease or is resistant to certain drugs," says Tettelin.

In addition to sequencing entire genomes of microbes, with its newer generation sequencing machines, IGS has the capability to look at what those genomes are up to. Only a fraction of genes are switched on, or activated, at any given time in an organism. By sequencing an organism's entire genome, researchers find out what a microbe has the potential to do.

Sequencing the messages (i.e., messenger RNA) being sent out by the genome, gives researchers a much better look at which genes are active and which are not, according to Luke Tallon, PhD, another TIGR transplant who co-directs IGS's genomics resource center. "If we can analyze the pattern of genes being actively expressed, we get significantly more and better information about what



Evolution of IncA/C antibiotic resistance plasmids. Courtesy of W. Florian Fricke, PhD

a microbe is up to at any given time in its life cycle," says Tallon.

This "expression analysis" approach to studying genomes is still relatively new. It is a powerful tool, however, that several investigators at IGS are applying not only to studying microbes but also to a number of clinical problems in people. In one project, Tallon and Lisa Sadzewicz, PhD, of IGS, are collaborating with researchers at the VA Maryland Health Care System in Baltimore to apply expression analysis to the study of individual differences in HDL cholesterol levels. HDL cholesterol, which has been dubbed the "good" cholesterol, has been shown to scour the walls of blood vessels, cleaning out excess bad cholesterol (LDL cholesterol) and keeping a person's cardiovascular system healthy. The goal of this study is to pinpoint subtle gene variations that influence whether an individual has high levels of this heart-protective molecule versus those who have lower levels.

Managing Oceans of Data

Sequencing a genome or the messages being sent by the genome are extremely important scientific achievements. But, a genomic sequence is of little use without extensive post-production work. Just as a film editor adds special

effects and music to a movie, genomic researchers add a great deal of information to the DNA sequence data. It is only through this "annotation" that these DNA sequences become truly valuable. The ultimate goal of sequence annotation is to arrive at a complete functional description of all genes of an organism.

Unfortunately, annotating sequencing data generates what Tallon refers to as an "ocean" of data, creating a monumental challenge and many sleepless nights for anyone trying to store, analyze, and make available for others to access.

At IGS, that task falls to Owen White, PhD, director of bioinformatics. White also ran the bioinformatics group at TIGR and is the author of many of the first complete genomics maps of many important microbes. He faces a daily challenge of not only managing the vast quantities of annotated sequencing data being generated by IGS researchers, but he also is overseeing an almost \$10 million grant from the National Institutes of Health for IGS to serve as the data analysis and coordination center for the Human Microbiome Project (HMP). This federally funded

project is a consortium of five sequencing centers studying the microbes that live in the various environments of the human body.

To handle the massive amount of data being generated by all these sequencing centers, White is overseeing the development of a state-of-the-art data management center that will not only handle IGS current needs but its needs into the foreseeable future. "The infrastructure to handle the massive amounts of data we and other sequencing centers in our consortium are generating didn't exist when we came here. It doesn't exist in many other places in the world either. So, we're basically building a data center from scratch," explains White.

Just about everyone at IGS agrees that data management is the rate-limiting step for all of their many research projects. However, all are philosophical about it as well. They realize that it comes with the territory.

"We came here to be leaders, not followers," says Ravel. "We're used to making do with what we have until the technology catches up with us; so we're never too bothered by any challenge that comes along." 🏢



Owen White, PhD, at data collection center

Photo by Richard Lippenholtz

Giants in the Nursery

By Rita M. Rooney

Photos by Richard Lippenholtz

Theirs is a gargantuan mission on behalf of Maryland's youngest patients. At the core of the pediatric faculty's commitment to children is a conviction that a child's physiology is complex, totally unlike that of adults, and demanding sub-specialization in every medical disease affecting children. Nineteen divisions in the medical school's department of pediatrics are staffed by 122 faculty members who treat youngsters both as outpatients, and in a 100-bed state-of-the-art children's hospital. Scientific investigation places the department among the top 20 grant recipients of NIH funding for pediatric research.

Steven J. Czinn,
Pediatrics



"What makes our approach to asthma management comprehensive is that we don't stop at innovative management of the acute asthma, but extend that to the management of the chronic underlying disease."



Keyvan Rafei, MD

is emphatic about the care provided. "What we do here is not breakthrough science," he says. "What we do is find innovative ways to more effectively translate existing knowledge in a clinical setting."

Traditionally, an asthmatic child is seen in the emergency department and follow-up treatment is passed on to a primary care giver. Unfortunately, fewer than 10 percent of these young patients ever receive anything more than acute episodic management of their disease, and heavy medications for their symptoms.

The difference at Maryland is that care begins with an evidence-based approach to the treatment of acute asthma that optimizes treatment. "The cornerstone of our approach is the preferential use of metered dose inhalers with valved holding chambers (MDI-VHC)," Rafei reports. "In contrast to the more commonly used nebulization route for administering inhaled medications, MDI-VHC's have been shown to be an effective modality that reduces side effects, shortens time spent in the emergency department, and decreases the need for hospitalizations."

Steven J. Czinn, MD, professor and chair of pediatrics, is a clinician whose research has altered medical thinking about the cause of childhood ulcers. He refers to pediatric care at Maryland as "one of the state's jewels."

"I came here three years ago because of the exceptional faculty, and the opportunity to meet the diverse needs of children throughout Maryland," Czinn says. "As a school of medicine, we draw residents from top tier training programs nationally.

We continue to attract the best and brightest among faculty and students, largely due to our impressive resources, among them technology, space, and support staff."

In 2008, the department of pediatrics—originally a division of medicine—celebrated its 60th anniversary. The occasion marked a community outreach initiative, working with hospitals and schools, promoting programs, and communicating with area physicians regarding the availability of services. Czinn explains the purpose is to increase awareness that will give children throughout the state the advantages of the unparalleled expertise and compassion found in an academic medical environment that places a high priority on personalized care. One example is the 24/7 presence in the emergency department of, not only a pediatrician, but a pediatrician whose sub-specialty is emergency medicine. Typical of outreach efforts, the pediatric emergency specialist sends a report on the treatment received by a patient to the area physician whenever the physician's name has been provided by the family.

Combating Children's Asthma

Asthma, a significant problem for the young throughout the country, nears epidemic proportions in Baltimore, where up to 20 percent of school age children have the disease, and where 46 percent of these youngsters have sought emergency care for an asthma-related problem in the past six months.

The department of pediatrics has long been recognized for its service to children with asthma, including its far-reaching Breathmobile, a free program that travels to Baltimore city schools to treat youngsters.

Commenting on specific efforts of the division he heads, Keyvan Rafei, MD, assistant professor of pediatrics,

Although these benefits are widely known, Rafei says few institutions have been able to efficiently incorporate the use of MDI-VHCs in daily care, both in emergency and in hospitalized care.

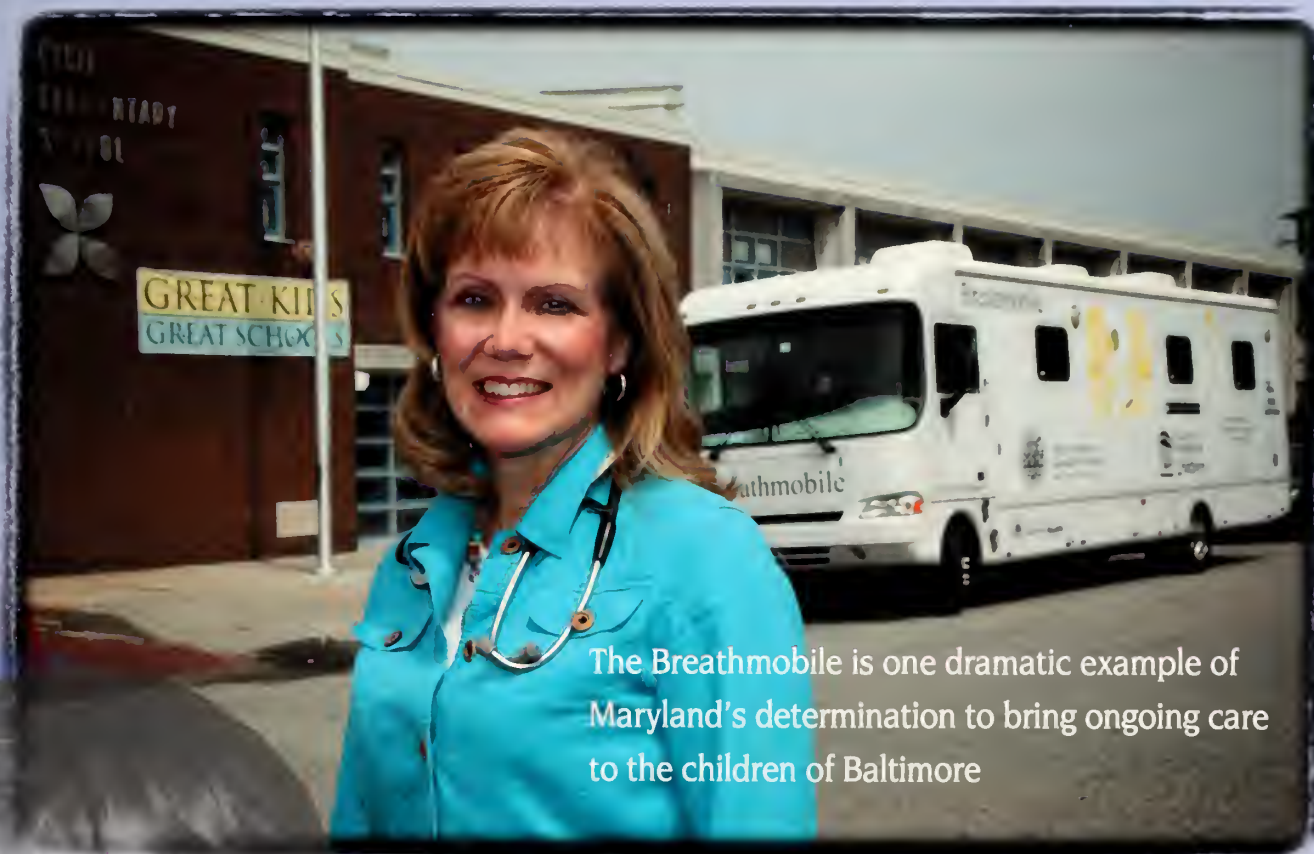
He adds, "What makes our approach to asthma management comprehensive is that we don't stop at innovative management of the acute asthma, but extend that to the management of the chronic underlying disease. We focus on a standardized approach, classifying the severity of the chronic asthma and tailoring an individualized action plan."

The primary tool used in the program is a document called *The 1-2-3s of Asthma* that highlights differences between airway bronchospasm and inflammation, two distinct but related processes that underlie asthma symptoms. The document also outlines triggers that can lead to acute episodes, and finally pinpoints the approach for managing

asthma, identifying symptoms that are frequently missed, and questioning parents about specifics that help physicians conclude whether a child's asthma is intermittent or chronic persistent. This information is integrated with an individualized action plan for patients and parents.

"We can't say our methods produce 100 percent compliance," Rafei says. "However, we have been able to show that our children do better faster, and leave the hospital with a better understanding of what to do when symptoms occur."

The Breathmobile is one dramatic example of Maryland's determination to bring ongoing care to the children of Baltimore. Mary Beth Bollinger, DO, associate professor of pediatrics and director of the program, reports that



The Breathmobile is one dramatic example of Maryland's determination to bring ongoing care to the children of Baltimore

Mary Beth Bollinger, DO, with the Breathmobile at Cecil Elementary School

the free care provided by the Breathmobile is available to Maryland families throughout Maryland, but focuses on 23 sites in Baltimore and another in Prince George's County, where childhood asthma is most prevalent. Approximately 400 to 600 children are seen annually for evaluation, treatment and consistent follow-up care in the program which is funded entirely through grants.

"Asthma is a lifelong illness that responds to early control of symptoms," Bollinger says. "The underserved children we treat are those with the most limited resources, as well as those with the highest prevalence and poorest control of asthma. We've been successful in significantly cutting the number of urgent care visits for these children, and reducing the number of asthma-related school absences."

Rafei concludes, "We're not the ones who discovered metered dose inhalers as more effective than nebulizers. We're not the ones who first determined airway inflammation as a critical factor to be controlled. What we have done is take what we know to be effective and apply it in a better and more consistent way, and that's not always easy to do."

Perhaps not. However, in 2006, the Joint Commission on Accreditation in Hospitals recognized Maryland's childhood asthma program for excellence in treating a specific disease and in 2008, renewed that certification with no recommendation for improvement.

Infant's First Week

As the largest division of neonatology in the state, Maryland has the best outcomes, including survival of infants born as early as 23 weeks. Premature and at-risk babies are treated by neonatologists whose published research is directed to many of the serious medical traumas that too often attend birth.

Cynthia F. Bearer, MD, PhD, professor of pediatrics and head of neonatology, is one of the most often cited authorities on the subjects of fetal alcohol syndrome and nutritional support for infants. Her vision for Maryland and for neonatology nationwide is the elimination of all environmental factors that threaten an infant's life and well-being—from plastics to alcohol.

"We are currently screening for heavy metal concentrations in blood received from blood bank donors," Bearer reports.

She explains that adults can walk around with much heavier metal concentrations in their blood than children. The process used to prepare blood for neonates doubles the metal concentration. She proposes using blood with low concentrations of heavy metal, which is therefore safer for preemies.

Bearer is a big believer in nutritional support for newborns, and claims there are many unanswered questions about the impact of nutrition on a preemie's brain. Her extensive research on fetal alcohol syndrome leads her to suggest there may be other environmental factors, including nutritional deficiencies, that work through the same mechanisms as alcohol to impair neuro-development. Her

research has shown that specific nutritional supplements can prevent some of the alcohol-induced changes seen in infants.

One percent of all babies born live have some degree of alcohol damage, and fetal impairment caused by alcohol is the leading known cause of mental retardation. So it becomes imperative to recognize an infant's exposure—signs that may not appear for several years, often too late for effective intervention. Bearer has a patent on a procedure that determines if a newborn has been exposed to alcohol. It involves the testing of meconium, and informs doctors which women have been drinking during pregnancy and how badly the baby has been exposed. Bearer has been working with cohorts in Cleveland and Africa, and in both cases, the studies have been able to pinpoint which

Her extensive research on fetal alcohol syndrome leads her to suggest there may be other environmental factors, including nutritional deficiencies, that work through the same mechanisms as alcohol to impair neuro-development.

children will need neuro-developmental help. She is now proposing that the test be used as part of the routine testing required for all babies.

"Infants are tested for all kinds of rare metabolic diseases, but here is an issue that affects one percent of all babies," she says. "If we can identify these children early in life, there are programs we can put in place to reduce many secondary disabilities incurred by these children, as well as to prevent the next exposed infant."

Rose Marie Viscardi, MD, professor of pediatrics, is conducting NIH-funded research on Ureaplasma, an infection that contributes to chronic lung disease in about 20 to 30 percent of premature births.

"Although the presence of Ureaplasma can be detected through amniocentesis, there is some skepticism about testing for it on the premise that there is no way to treat it," Viscardi says. "Our laboratory is very close to clinical trials with extremely low weight infants, to determine if azithromycin is effective in treating the condition."

One of the most recent programs available to newborns is the whole body hypothermia method used for infants who do not receive sufficient oxygen in utero or during delivery, a situation that can lead to a form of brain damage called hypoxic ischemic encephalopathy (HIE). When the injury is severe, the insult to the brain can lead to severe developmental problems, even death. The unit now uses a cooling system in which the baby is placed on something resembling



"If a child has dysentery, it could be caused by any one of several different pathogens, some of which are difficult to diagnose without molecular tests."

Photo by Sandra Panchalingam

James P. Nataro, MD, PhD '87 in Kenya

a heating pad for 72 hours, while cool water is consistently pumped from a machine into tubing inside the pad.

The procedure is a relatively new one that studies prove to be effective in saving lives and improving neurodevelopmental outcomes. Based on clinical signs, doctors determine if HIE is moderate to severe. If it is, these infants must receive the treatment within six hours of birth."

Diagnosing Infections

James P. Nataro, MD, PhD '87, professor of pediatrics, who heads the division of infectious diseases and tropical pediatrics, has a single-minded goal in his study of technology for diagnostic purposes.

"I'd like to put clinical microbiology laboratories out of business," he says. Countering the statement to explain his reference to the way in which laboratories now work, he talks of the need to send a specimen to bacteriology, virology, parasitology, and mycology labs for batteries of tests, each time-consuming and requiring considerable expertise. Much of the division's studies have focused on research in developing countries where setting up this kind of laboratory is prohibitive, but necessary to Nataro's specialty.

"In treating a child with an extremely high fever, you could be dealing with malaria or bacteria in the blood," Nataro says. "If a child has dysentery, it could be caused by any one of several different pathogens, some of which are difficult to diagnose without molecular tests."

His research has found a life-saving shortcut. By cracking open all the bacteria, viruses and cells in a particular stool, his lab has discovered it's possible to identify the

nucleic acid signatures. From that, the lab can examine a long list of pathogens, using microarray or mass spectrometry to search through the list simultaneously and make the diagnosis.

"A machine has been developed commercially that can identify the nucleic signatures," Nataro reports. "We already have nucleic acids isolated from children in developing countries. Platforms have been developed and a list of suspect pathogens populated. We are now evaluating various multiple technologies head to head, and expect that, within a year, we will have a validated technology that will save time, and probably lives."

He adds the research will undoubtedly find valuable application in the United States and abroad, any place where critical diagnosis of a specific agent is often impaired by costly and time-consuming lab work.

In another area of research, Dr. Czinn's laboratory has made important inroads concerning *H. pylori*, an infection known to cause pediatric ulcers. The suggestion was originally discarded by a skeptical medical community that rejected the concept of a germ residing in a child's stomach. His was one of the first labs to show the infection does affect children and causes ulcers. From that, his continued studies proved that the organism becomes a lifelong infection that, in some, leads to gastric cancer later in life. His lab, which has been funded by NIH for 20 years, holds patents on the oral vaccine to prevent the infection.

Commenting on the stature of the 122 pediatric specialists who comprise the department, Czinn says, "It is their reputation for unqualified excellence that draws patients from every corner of Maryland to this university. It is because of them, and because of our broad-based credentials in patient care and pediatric research that we are called on for second opinions for out-of-state patients. And it is because of them that children in this academic medical environment receive the compassionate care they might expect in a community hospital." 🏥



reunion 2009

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Message from the MAA President

When I was introduced as the 135th Medical Alumni Association president on May 1, it was revealed that my father, Selvin, '60, and I were the fourth father-son combination to serve as president of this fine organization since its inception in 1875 (my father was president in 1998). We share this distinction with Albert Goldstein, class of 1912, and son Robert B., class of 1954; Alfred T. Gundry, class of 1894, and son Lewis P., class of 1928; and Richard S. Stewart, class of 1822, and son James, class of 1850.

This fact speaks volumes about our medical school. It suggests that for more than 200 years graduates have been so pleased with their education here that they have consistently encouraged their offspring to follow in their footsteps. I would also submit that this deep appreciation carries over to service to the medical school through the alumni association.

In the grand scheme of things, having had other family members attend Maryland prior to our matriculation is not terribly significant. What is important, however, is to recognize that as graduates we can be the school's biggest good-will ambassadors. Maryland benefits from our efforts encouraging prospective medical students to apply here; from our patient referrals; and certainly from our financial support. And as the stature of our medical school continues to rise, we bask in the glory—certainly we've all heard the expression "a rising tide lifts all boats."

Please join us in our work for this great medical school. If you wish to become involved in association-sponsored activities, simply contact Larry Pitrof in the alumni office. We'd be delighted to add you to one of our seven standing committees or to help plan your next reunion. There is always room for one more!

Martin I. Passen received his undergraduate degree from Tufts University in 1986. Upon graduation from medical school he remained at Maryland for training in internal medicine and was named chief resident in 1993. He served as clinical assistant professor of internal medicine here from 1994 to 2004. His practice—Crossroads Medical Group—is located in Owings Mills. Passen enjoys skiing, golf, piano, and sailing. He and wife Amy have two children.

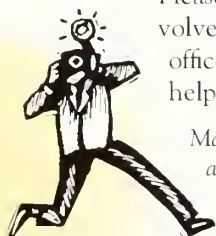


Martin I. Passen, '90

135th President
Medical Alumni Association

Did we take your picture?

Photographs from the 134th Medical Alumni Reunion are available on the MAA website www.medicalalumni.org. Please visit our website to copy your favorites.



Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Medicine Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

Recognition Luncheon

MAA Honors Irving J. Taylor, '43M, & Class of '59

There were two awards but just one recipient. Irving J. Taylor, '43M, became the medical school's first graduate to receive both the Honor Award & Gold Key and Distinguished Service Award in the same year. Presented since 1948, the gold key recognizes outstanding contributions to medicine and distinguished service to mankind. Taylor was recognized for his work in the field of psychiatry. As for the Distinguished Service Award, presented since 1986 for outstanding service to the medical alumni association and school, Taylor's moral and financial support were cited as contributing factors. Twenty-two of the surviving members of the class of 1959, celebrating a golden anniversary, were honored during the luncheon held at Westminster Hall.



Clockwise: Irving J. Taylor, '43M; Attending the luncheon from the class of 1959 were Arthur L. Poffenbarger, Jose Morales, Jorg Just, and Stanley Snyder, and Martin I. Passen, '90, thanks Ronald Goldner, '65, for his leadership as MAA president during the past year.

CALLS FOR

2010 Awards Nominations!

Alumni, faculty, and friends are invited to send in nominations for two MAA-sponsored awards by November 1, 2009. The Honor Award & Gold Key is presented to a living graduate based on outstanding contributions to medicine and distinguished service to mankind. Factors considered in the selection process include: impact of accomplishments; local, national, and international recognition; support letters, and publications. The Medical Alumni Association Service Award is given to an individual who has provided outstanding service to the Association and Medical School. The awards will be presented during the Reunion Recognition Luncheon on Friday, April 30, 2010. Letters of nomination for both awards must include a curriculum vitae and should be addressed to:

Joseph Martinez, '98,

Chair, Awards Committee, Medical Alumni Association

522 W. Lombard Street, Baltimore, MD 21201-1636

or emailed to: maa@medalumni.umaryland.edu



reunion
2009

16th Historical Clinicopathological Conference

John Paul Jones,

*The cause of death listed
on his burial certificate was
"Jaundice of the chest."*

Progressive Glomerulonephritis Doomed Sailor

considered by many as the father of the United States Navy, died at age 45 of kidney failure probably brought on by a viral or bacterial infection. The diagnosis was made during the 16th Historical Clinicopathological Conference in historic Davidge Hall.

The conference, devoted to the modern medical diagnosis of disorders that affected prominent historical figures, featured Matthew R. Weir, MD, professor of medicine and director of Maryland's division of nephrology, as well as Lori Lyn Bogle, PhD, associate professor of history at the U.S. Naval Academy.

Jones, born as John Paul in Scotland in 1747, first went to sea at age 13 and became a captain at 21. He was a spectacularly successful officer during the American Revolution. Despite his naval prowess, Jones experienced recurring health problems beginning at age 26. Weir theorized that the interstitial nephritis was the end result of this progressive disease. He also had pneumonia, an incidental finding not likely related to the kidney disease. 🏛️



Lori Lyn Bogle, PhD



Matthew R. Weir, MD



John Paul Jones, as portrayed by actor John Wilson

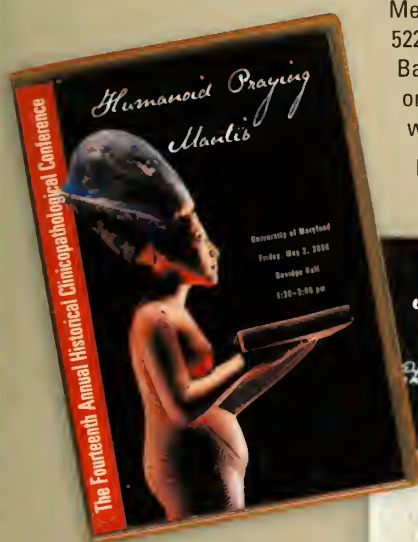
Missed This Year's CPC?

You can now purchase a DVD of the 2009 John Paul Jones Conference. We also have DVDs from the 2008 Akhenaten CPC, the 2007 President Lincoln Conference and the 2006 Booker T. Washington CPC.

To order, mail a check for \$18.00 (per item) payable to:

Medical Alumni Association
522 W. Lombard Street
Baltimore, MD 21201-1636
or visit our website at
www.medicalalumni.org

Be sure to indicate which recording you wish to obtain.



Also
available:

Post Mortem: Solving History's Great Medical Mysteries

By Philip A. Mackowiak, MD, FACP, MBA,
Class of '70

This 350 page book examines the controversial lives and deaths of 12 famous men and women, including Alexander the Great, Herod, Joan of Arc, Mozart, Beethoven, and Edgar Allan Poe, who have been subjects of our past CPC conferences. It combines mystery stories with popular history and medical case studies to offer you a fascinating and entertaining experience!



To order, mail a check for \$29.95 payable to:
Medical Alumni Association

reunion 2009

Did we take your picture?

For more information, visit
www.medicalalumni.org
or call 1-800-368-2222



The Annual Crab Feast

The Baltimore Museum of Industry was the site of the annual MAA Crab Feast on Friday, May 1. Some 150 alumni, students, and guests toured the museum, relished the view of the inner harbor, listened to jazz music, and enjoyed the company of classmates and friends.



Eric Schmitter, '54, gets his fill of crab.



Paul Ringelman, '84, with classmates Matt Reveille and Brad Lerner




Joy L. Meyer, '89, with husband Dale R. Meyer, '84



Marsha Bezold, Louis I. Bezold III, '89, David Burns, '89, wife Melanie, and Penelope Jamasbi



Bring Home a Piece of Medical School History



Order Your Davidge Elm

The original English Elm was planted beside Davidge Hall in 1812, the year our medical building opened for instruction. When it was removed in December 2001—189 years later—its seedlings were shipped to a nursery. A limited number are now available for purchase with shipment scheduled for March 2010.

To order your Davidge Elm, please contact Larry Pitrof at the Medical Alumni Association by calling 410.706.7454 or emailing larry@medalumni.umaryland.edu. The purchase price includes shipping, planting at your location, and a tax-deductible gift to the Davidge Hall Restoration Fund.

Reunion Class Parties



Class of 1944. Stanley N. Yaffe was the sole representative at the Recognition Luncheon



Class of 1949 at the Recognition Luncheon



Class of 1954 at the Center Club



Class of 1964 at the Maryland Club



Class of 1959 at the Center Club



Class of 1969 at the home of Mark Applefeld



Class of 1974 at Neo-Vicino Restaurant



Class of 1989 at Tabrizi's Restaurant



Class of 1979 at the National Aquarium



Class of 1994 at Lucy's Irish Pub



Class of 1984 at the Maryland Club



Class of 1999 at Cedar Lane Park



Class of 2004 at Captain Larry's Bar & Grill

Did we take your picture?

Photos from the 1974, 1979, 1984, 1989, 1994, 1999, and 2004 classes are available on the NAA website: www.medicalalumni.org

POSTAGE WILL BE PAID BY ADDRESSEE



Appointments to National Organizations

Robert Edelman, MD, FACP, professor, departments of medicine and pediatrics, was selected for membership to the World Health Organization Advisory Committee on Dengue and Other Flavivirus Vaccines, for a five-year term.

John A. Kastor, MD, professor, department of medicine, has been appointed as a member of the editorial board of *The Pharos*, the quarterly journal of the Alpha Omega Alpha Medical Honor Society.



John A. Kastor, MD

Mandeep Mehra, MBBS, FACC, FACP, the Dr. Herbert Berger Professor of Medicine, and assistant dean for clinical affairs, was appointed as a core member of the American Board of Internal Medicine (ABIM) Test Committee. The ABIM focuses on the new subspecialty of advanced heart failure and transplant cardiology and will develop the national ABIM board certification exams.



Michael T. Shipley, PhD

Michael T. Shipley, PhD, Donald E. Wilson Distinguished Professor and chair, department of anatomy & neurobiology, is chair-elect to the section on neurosciences of the American Association for the Advancement of Sciences. Shipley will be chair-elect in 2010 and chair in 2011.

Alan R. Shuldiner, MD, professor, department of medicine, was appointed to the National Institute of Diabetes and Digestive and Kidney Diseases Clinical Obesity Research Panel. Shuldiner delivered a lecture at a meeting the research panel held in Bethesda, Md., in February.



Alan R. Shuldiner, MD



Sanford A. Stass, MD

Sanford A. Stass, MD, professor and chair, department of pathology, and interim chair, department of medical & research technology, was appointed to the editorial board of *Cancer Biomarkers*.



Christine Wells, PT, PhD

Christine Wells, PT, PhD, assistant professor, department of physical therapy & rehabilitation science, was elected vice president of the cardiovascular and pulmonary section at the American Physical Therapy Association Combined Sections Meeting in Las Vegas in February.

Awards & Honors

Stephen Bartlett, MD, professor and chair, department of surgery, was recipient of a 2009 University System of Maryland (USM) Regents' Faculty Award for Excellence in Public Service by the USM Board of Regents.

This award is the highest honor the regents bestow in recognition of exemplary faculty achievement. Each year, up to 15 awards in five categories are presented. Bartlett's selection is a reflection of his outstanding accomplishments.

Daniel Farber, MD, assistant professor, department of orthopaedics, is a recipient of the American Orthopaedic Foot & Ankle Society (AOFAS) Traveling Fellowship Award. The AOFAS Traveling Fellowship Awards Program is open to active members, associate members, candidate members and international members who are age 45 years or younger. Five members are chosen annually to travel and



Stephen Bartlett, MD

visit leaders in foot and ankle education and research. A goal of the Traveling Fellowship Awards Program is to spur new thinking about orthopaedic foot and ankle care and research. Traveling fellows are required to present a summary of their findings at the AOFAS annual summer meeting and also through an article in an AOFAS publication. Farber will travel to learning centers in the Northwest United States and Canada, where he will interact with AOFAS surgeons. As a fellow, he will observe surgery, attend clinics, give presentations and participate in a surgical planning conference and cadaver workshop.

Robert C. Gallo, MD, professor, department of medicine, and director of the institute of human virology, was one of three recipients of the annual \$1 million Dan David Prize. The 2009 Dan David Prize laureates



Robert C. Gallo, MD

are categorized in "past, present and future time dimensions." Gallo was honored in the "future" category, in the field of global public health, not only for his research of the HIV and T cell leukemia viruses, but especially for the development of a robust, simple blood test to detect the HIV virus, the importance of which cannot be overestimated for the epidemiology of this huge pandemic. The Dan David Prize is named after international businessman and philanthropist Dan David and is headquartered at Tel Aviv University. The laureates, who donate 10 percent of their prize money towards 20 doctoral and post-doctoral scholarships, were honored at a ceremony at Tel Aviv University in May in the presence of Israeli president Shimon Peres.

E. Tonas Kalil, PT, MGA, RT, instructor and academic coordinator of clinical education, department of physical therapy & rehabilitation science, was presented with the Barbara Knothe Burn Therapist Achievement Award at the American Burn Association Annual Meeting in March 2009. This yearly award recognizes the outstanding performance of occupational therapists/assistants or physical therapists/assistants and his/her dedication, service and contribution to the realm of burn care and rehabilitation. Kalil is co-founder of

the Mid-Atlantic Burn Camp, which provides programs for burn-injured youths and their families, and also serves as a consultant for the International Association of Fire Fighters, assisting in the organization of programs for young burn survivors. Kalil was also a finalist in *The Daily Record* 2009 Health Care Heroes Awards, which were presented in March.

Mingkai Li, MD, PhD, postdoctoral fellow, department of surgery, won second prize in the laboratory research category of the 2009 American Urological Association (AUA)/Gyrus Prize Essay Contest. Li presented his abstract during a moderated poster session at the American Urological Association Annual Meeting in Chicago in April. The Gyrus Essay Prize contest encourages urologists and residents in training to share their learning with fellow urologists. Additionally, Li won honorable mention in the 2009 Annual Jack Lapides Essay Contest on Urodynamics and Neurourology Research. Awardees of this contest are invited to an awards dinner in conjunction with the AUA annual meeting. The project that won both awards is entitled "Augmented Polyamine Signaling Blocks the Large Conductance Calcium Activated Potassium (BK) Channel in Bladder Urothelial Cells from Patients with Overactive Bladder Syndrome." Li conducted his research for this work in the laboratory of and under the supervision of **Toby Chai, MD**, professor, department of surgery. **Yan Sun, PhD**, instructor, and **Jian-Ying Wang, MD, PhD**, professor, both from the department of surgery, and **J. Marc Simard, MD, PhD**, department of neurosurgery, also contributed to this research.

Nabile Safdar, MD, assistant professor, department of diagnostic radiology & nuclear medicine, has been awarded the Leonard Berlin Scholarship in Medical Professionalism from the American Roentgen Ray Society for 2009 to 2011. The scholarship is intended to support study and research related to medical ethics, medicolegal principles, patient accountability, sensitivity to patient diversity and/or other topics encompassing medical professionalism and carries a funding commitment of \$100,000. In addition to completing his master's degree in public health at the medical school, Safdar plans to conduct a nationwide survey of IRB practice related to imaging research issues.

Events, Lectures & Workshops



Maureen Black, PhD

Maureen Black, PhD, professor, department of pediatrics, was invited by the Ecuador Ministry of Planning and Development to consult with them on their national early child development programs workshop,

held in January. As part of the consultation, and as part of the workshop, Black presented "Socioeconomic and Cultural Environment for Child Development."



Y. Christy Chang, PhD

Y. Christy Chang, PhD, assistant professor, department of medicine, delivered a platform presentation entitled "Common Variants in STK39 Are Associated with Blood Pressure Levels" at the 58th Annual Meeting of

the American Society of Human Genetics in Philadelphia.

Howard Dubowitz, MB, ChB, MS, professor, department of pediatrics, was an invited speaker on "Child Neglect and the Prevention of Child Maltreatment" at the 3rd Arab Regional Conference on Child Abuse and Neglect in Riyadh, Saudi Arabia, in March.



Howard Dubowitz, MB, ChB, MS

Richard P. Dutton, MD, MBA, associate professor, department of anesthesiology and programs in trauma and neuroscience, was one of two invited keynote speakers at the 5th Annual Auckland

City Symposium in Auckland, New Zealand. The symposium topic focused on trauma and resuscitation. Dutton presented "Emergency Airway Management" and "Hemostatic Resuscitation from Hemorrhagic Shock" and participated in a case discussion panel.

Robert Edelman, MD, FACP, professor, departments of medicine and pediatrics, organized and chaired a symposium entitled "Status of Phase I and Phase 2 Clinical Trials of Dengue Vaccines" at the 57th Annual Meeting of the American



Robert Edelman, MD, FACP

Society for Tropical Medicine and Hygiene in New Orleans in December 2008.

Samer El-Kamary, MB, ChB, MPH, assistant professor, departments of epidemiology & preventive medicine and pediatrics, gave an invited talk entitled "Viral Hepatitis in Egypt" during a symposium entitled "Viral Hepatitis in Africa" and held in conjunction with the 13th International Symposium on Viral Hepatitis and Liver Disease in Washington, DC, in March. Additionally, El-Kamary presented a poster entitled "Clearance of Hepatitis C Viremia in Children Born to, and Living with, HCV-infected Mothers is Associated with Long-lasting HCV-specific Cell Mediated Immune Responses."

Alessio Fasano, MD, professor, department of pediatrics, medicine and physiology, and director, center for celiac research, presented "Physiology of Gut Permeability" at the 19th Annual Course in Pediatric Gastroenterology & Endoscopy, held at the Royal Free Hospital in London in January.



Alessio Fasano, MD

Claire M. Fraser-Liggett, PhD, professor, departments of medicine and microbiology & immunology, and director, institute for genome sciences, was a keynote speaker at the 50th Annual Meeting of the National Council of

faculty

University Research Administrators in Washington, DC, in November 2008. The title of her presentation was "Through the Genomics Microscope: A New View of the Microbial World."

Ziv Haskal, MD, professor, department of diagnostic radiology & nuclear medicine, sat on the program committee of the Global Embolization Symposium and Technologies (GEST) meeting, held in Paris in April. Also a member of the advisory board, Haskal presented "Coils and Plugs" and "Radioembolization Particles and Gel Foam" and "Embolization of Varices: Better, Stronger, Harder, Fast" and chaired a session entitled "Venous Insufficiency: Embolization and Ablation." Haskal is a founder of GEST, the world's largest multinational scientific meeting on embolotherapy.

James B. Kaper, PhD, professor and chair, department of microbiology & immunology, delivered a keynote address as a representative of the American Society for Microbiology, entitled "In vivo Gene Expression and



James B. Kaper, PhD

of Cholera and Enteric Diseases. Kaper also delivered a November lecture at Georgetown University School of Medicine on "Vibrio cholerae and Cholera."

Dean L. Mann, MD, professor, department of pathology and program in oncology, gave an invited lecture at the International Symposium on Cancer Immunotherapy and Cancer Vaccines in Algiers, Algeria, in February. Mann's lecture was entitled "Combining Standard Cancer Treatment Modalities with Immunotherapy to Treat Advanced Malignancies."

TLR5 Activation by *Vibrio Cholerae*" to the Association of Microbiologists of India in Delhi in November 2008. While in India, he traveled to the city of Kolkata (Calcutta) to present a similar lecture at the National Institute

Andrew F. Neuwald, PhD, professor, department of biochemistry & molecular biology and institute for genome sciences, presented "The CHAIN Program: Forging Evolutionary Links to Underlying Mechanisms" at the 27th Leeds Annual Statistical Research Workshop in Leeds, England, in July 2008. In October



Andrew F. Neuwald, PhD

2008, Neuwald presented "The Charge-dipole Pocket: An Ancient Ras-like GTPase Component Associated with Switch II Restructuring" at the Center for Bioinformatics, University of Kansas, in Lawrence during a seminar held by the Kansas State University Department of Biochemistry.

Ligia Peralta, MD, associate professor, department of pediatrics, was the invited

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The Hilton Family

speaker at the annual Middle East Pediatrics 2009 Conference in Dubai, United Arab Emirates (UAE), in January 2009. It was the first time the conference agenda included an adolescent health specialist. Peralta was asked to provide input to their national HIV agenda. In addition to outlining important vaccines for adolescents, Peralta presented a history of HIV treatment and prevention over the last 25 years. Her visit to Dubai marks the beginning of the UAE Ministry of Health's recent public commitment to develop a new plan for HIV/AIDS prevention and treatment. During this trip Peralta was honored with a visiting professorship at Rashid Hospital in Dubai.



Thomas M. Scalea, MD

Thomas M. Scalea, MD. Francis X. Kelly Professor of Trauma Surgery, and director, program in trauma, presented "Recombinant Activated Factor VII: Is It Efficacious?" at the Society of Critical Care Medicine 38th

Critical Care Congress in Nashville in February.

Amy Sisley, MD, MPH. assistant professor, department of surgery and program in trauma, presented "Ultrasound Imaging of the Thorax and Vessels" and "Ultrasound-Guided Thoracentesis" at the Society of Critical Care Medicine 38th Critical Care Congress in Nashville in February.

Soren Snitker, MD, PhD. assistant professor, department of medicine, served as the invited chair of a session entitled "Lessons from the Gila River Indian Community" at the annual meeting of the Obesity Society in Phoenix in October 2008.



Soren Snitker, MD, PhD

Richard Y. Zhao, PhD. associate professor, departments of pathology and microbiology & immunology and institute of human virology, co-chaired a session entitled "Diagnostics and Small Molecule Therapies" during the inaugural Pearl River International Biopharmaceutical Forum and 14th Annual Conference

of Chinese Biopharmaceutical Association in Guangzhou, China, in June. In July, Zhao presented "Fission Yeast as a High-throughput System for Drug Screening" at the GTCbio's 3rd Annual Rediscovering Biomarkers Conference, held in San Diego.

Book/Textbook Publications

Robert Edelman, MD, FACP, professor, departments of medicine and pediatrics, authored a 43-page document with input from an international working group, published by the World Health Organization Initiative for Vaccine Research. Entitled *Guidelines for the Clinical Evaluation of Dengue Vaccines in Endemic Areas* the piece is addressed to national and regulatory authorities in more than 100 dengue-endemic countries interested in using vaccines to control the disease.

Robert L. Rogers, MD, assistant professor, departments of emergency medicine and medicine, is the chief editor of *Practical Teaching in Emergency Medicine*, an 18-chapter book published by Wiley-Blackwell in January. Associate editors include **Amal Mattu, '93**, associate professor, department of emergency medicine, **Michael E. Winters, MD**, assistant professor, departments of emergency medicine and medicine, and **Joseph P. Martinez, '98**, assistant professor, departments of emergency medicine and medicine, and assistant dean for student affairs. **Mercedes Torres, MD**, clinical instructor, and **Siamak Moayedi, MD**, assistant professor, both in the department of emergency medicine, contributed to a chapter on teaching procedures.

Vishvanath Nene, PhD professor, department of microbiology & immunology, and associate director, institute for genome sciences, co-edited *Genome Mapping and Genomics in Animal-Associated Microbes*, published by Springer-Verlag.

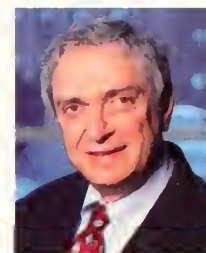


Vishvanath Nene, PhD

Grants & Contracts

Mordecai P. Blaustein, MD

professor, department of physiology, received a four-year \$1.9 million competing renewal from the National Heart, Lung and Blood Institute for his work entitled "Calcium and Sodium Transport in Hypertension."



Mordecai P. Blaustein, MD

Reha Erzurumlu, PhD professor, department of anatomy & neurobiology, received a five-year \$1,640,625 RO1 competing renewal grant from the National Institute of Neurological Disorders and Stroke for his work entitled "Somatosensory Cortical Development and Plasticity."

Myron Levine, MD professor, department of medicine, and director, center for vaccine development, received a five-year \$43 million renewal of his National Institutes of Health Middle Atlantic Regional Center of Excellence in Biodefense and Emerging Infectious Diseases (MARCE) grant. The MARCE consortium supports approximately 40 investigators from 14 research institutions. It fosters research that contributes to the defense of the United States of America against biological threats, including the deliberate release of bioterror agents and the natural emergence or re-emergence of infectious diseases.

Jennifer Wortman, MS. assistant professor, department of medicine and institute for genome sciences, received a five-year \$1.35 million grant from the National Institute of Allergy and Infectious Diseases for her work on *Aspergillus* genomics and molecular biology. The title of her grant is "Aspergillus Genome Database," and its primary goal is to improve predicted gene models across all *Aspergillus* genomes, incorporating available data resources and leveraging comparative genomics analysis.

155 Years Ago

In 1854, Maryland became the first American medical school to introduce microscopic histology in the regular curriculum. Entitled "Experimental Physiology and Microscopy," the lecture was presented by Christopher Johnston, class of 1844, an accomplished physiologist and microscopist. Johnston served as professor of anatomy and physiology from 1863 to 1866 and professor of surgery from 1869 to 1881.



60 Years Ago

In 1949, Paul E. Carliner, class of 1934, in association with Dr. Leslie Gay (both on the staff of Johns Hopkins), developed the drug Dramamine to combat seasickness. The two had been testing the drug as an experimental antihistamine when a female patient suffering from hives reported that her motion sickness on a streetcar was suppressed by taking a dose of the drug in advance of her ride. The two decided to test the drug on soldiers traveling to Germany on the ship *General C.C. Ballou*. It worked.



15 Years Ago

In 1994, Eve J. Higginbotham, MD, became the first woman in America to chair a university-based department of ophthalmology when she came to Maryland. She was the first author of a paper demonstrating the benefits of topical medical therapy in either delaying the onset or preventing the development of glaucoma among African Americans with ocular hypertension.

recollections

A look back at America's fifth oldest medical school and its illustrious alumni

student Activities



Taking the Oath of Hippocrates during Convocation

A Salute to the Class of 2009

The class of 2009, consisting of 139 members, is now training in 110 programs at 72 hospitals in 24 states. The medical school and alumni association provided a fitting finale to their medical school educations with a series of celebrations during the months of March and May.

Classmates learned the locations of their training during an elaborate Match Day program on March 19 in Davidge Hall, followed by a luncheon with family and faculty.

On May 14—the day before graduation—distinguished graduates were invited to the M&T Bank Pavilion of the Hippodrome Theater for the scholarship and awards breakfast. This special event was created in 2007,

removing the presentations from pre-commencement convocation.

The medical school broke from recent tradition this year, opting to stage convocation in the Key Ballroom of the new Baltimore Hilton



Hotel. The location simplified travel arrangements for graduates, family, and faculty, as both convocation and commencement (at the First Mariner Arena) were within walking distance from campus.

At left: Shavonne Massey is heading to New York University for child neurology. Above: Virginia Commonwealth University is the site of Poornima Vanguri's general surgery training.

Photos by Mark Teske & Richard Lippenholz

Going It Alone

ALUMNUS PROFILE:

Maurice N. Reid, '99

Reid's strategy is working, he says. ExpressCare sees more than 40,000 patients a year, and he's making a profit. "I try not to stand pat," Reid says. "I am always trying to find ways to improve the business."

AS FAR AS Maurice N. Reid, '99, can recall, no one in his family had ever been an entrepreneur. Yet four years ago, Reid had a burning desire to strike out on his own. He had just

been named clinical director of the emergency department at Bon Secours Hospital in Baltimore. He was making good money and was happy with the management and his job. In spite of concerns expressed by some family and friends, Reid quit his job and, in his words, "jumped off a cliff."

"I had this interest in controlling my own destiny," says Reid, age 36. "I really enjoyed the idea of building something from scratch."

Today, Reid is founder and president of ExpressCare Urgent Care Centers, a rapidly growing urgent care operation in suburban Baltimore. Since opening his first ExpressCare center in 2005, Reid has added three more locations, employs 60 people—including 15 physicians—and plans to open one or two more centers in Maryland in the near future. What's more, Reid is mulling plans to franchise ExpressCare across the country. "I'm not really motivated by money. It is more about building something," Reid says.

The genius of ExpressCare is the simplicity of Reid's strategy. He sees patients who have colds, coughs, pink eye, sore throats, fractures, sprains and broken bones. He treats them quickly, administers excellent care, and sends them on their way. "We're here for the basic stuff," he says.

The centers are open seven days a week and appointments aren't necessary. Convenience and quick services are a key part of the marketing strategy. To attract customers to his centers, Reid advertises and uses bold red and white lettering on the glass windows of his buildings. "Sick? Our physicians will see you now," proclaims a window sign at the ExpressCare in Bel Air. "No appointment necessary."

He even has a deal with the fast food chain Chick-fil-A where patients receive a coupon for two free Chick-fil-A sandwiches for patronizing ExpressCare.

Reid's strategy is working, he says. ExpressCare sees more than 40,000 patients a year, and he's making a profit. "I try not to stand pat," Reid says. "I am always trying to find ways to improve the business."

His biggest worry is customer service, making sure patients are greeted by the staff and treated thoroughly and quickly. "When someone arrives, we try to think of them as someone who is supporting our family," Reid says.

He also worries about finding physicians who can deliver quality care. "That is the hardest part of the business, finding qualified people who can take care of anything coming through the door," he says.

Reid doesn't recall anyone in his family with the same entrepreneurial drive. He was one of four children who grew up in a middle-class house-



hold. His father assembled radar systems for aerospace company Martin Marietta Corp., and his mother was a substitute teacher.

Reid graduated from Howard University in Washington, D.C., in 1995, and from Maryland four years later. He focused on emergency medicine at the medical system until 2003, having been named assistant professor in the department of emergency medicine in 2002. Two years later, he was named clinical director for the emergency department at Bon Secours Hospital.

While he liked his job, Reid wanted to build something on his own. He floated the urgent care idea past friends. "I said, 'Let's do this,'" he recalls. "But no one wanted to move on it."

In fact family members warned him about quitting his job and taking on such a big risk. The risks, they said, were too great, especially since he was married, had a young family and a bright future at the hospital. "But I didn't see myself being an administrator," he says.


While others had doubts, Reid's wife Laverne never questioned the move because she saw his drive and work ethic. He put together a business plan and applied for a Small Business Administration loan. But the agency took too long to make a decision; so Reid moved ahead, hammering out an agreement with a firm specializing in healthcare lending. He came up with additional funds to support the business by tapping the equity in his home.

"If I fell on my face, my family still wasn't going to wind up at the soup kitchen," he surmised.

The grand opening in March 2005 was far from perfect. Local primary care physicians worried that ExpressCare would steal their patients, and they refused to refer patients to the clinics even for minor bumps and bruises that they were too busy to treat. "It was rough," recalls Reid, who claims he didn't take a day off over a two to three-year period. "There was very little assistance from local physicians to help me grow my business."

The center also missed the busy cold and flu season by several weeks. Despite these initial setbacks the business began turning a profit, and Reid opened a second ExpressCare in June 2006, followed by a third in 2007 and a fourth in 2008.

He hopes to add one or two more ExpressCare centers and eventually offer national franchises. Reid believes ExpressCare centers are catching on as insurance companies continue to clamp down on reimbursements. He charges \$200 to sew up a laceration while a hospital emergency room charges \$1,500 for the same procedure. "We're saving insurance companies a lot of money," he says.

Reid has no regrets about leaving the security of the hospital to strike out on his own. "I feel good," he says. "It's been risky, but I find myself happier than if I were a mere cog in the wheel." 

advancement

Fund for Medicine Gala Hits a Global Note

"Discovery Advancing Better Global Health" was the theme of the 2009 Fund for Medicine Gala, attracting more than 600 faculty, friends, and alumni on March 14. The event was held at the new Hilton Baltimore Convention Center Hotel just one block from Davidge Hall.

In keeping with the global theme, planners adorned the ballroom and reception areas with decorative fixtures representing far flung regions where Maryland researchers have forged an ongoing presence, including Africa, Asia, Europe and South America. Dr. Robert Fischell and wife Susan served as honorary co-chairs of the event and deftly guided the program which included the investing of 19 chairs and professors as well as the deanship. **UMB president David J. Ramsay** and **SOM dean E. Albert Reece** conferred the medals on faculty honorees.

Following the program, guests danced to big band sounds of *Mood Swings*, featuring **Jack Vaeth, '92**, a Baltimore area psychiatrist. The gala raised more than \$242,000 for the school primarily through the generous support of corporate sponsors and friends. Planning is underway for the 2010 event, and information will be published in upcoming issues of the *Bulletin*.



Gala co-chairs Mrs. Susan & Dr. Robert Fischell

JBDA Alliance Luncheon Highlights Recent Gifts

More than 60 individuals were installed into the John Beale Davidge Alliance on Thursday, April 30. The society for major donors, created in 1978, now boasts more than 900 members. The event was staged at the M&T Bank Pavilion of the Hippodrome Theatre and was co-hosted by the medical school and alumni association.



New Elm member Burton G. Schonfeld, '68, center, with classmate Howard, '68, & Roni Semins

FY09 New Members

Elm Society

Alumni

Howard T. Knobloch, '36
Meredith P. Smith, '49
Robert J. Byrne, '56
William F. Falls Jr., '59
Marvin M. Kirsh, '59
Aristides C. Alevizatos, '60
Elijah Saunders, '60
Bruce D. Broughton, '62
Mitchell C. Sollod, '63
Burton S. Schonfeld, '68
Emile A. Bendit, '69
Paul J. Connors, '69
Edwin E. Mohler, '69
Walker L. Robinson, '70
R. Henry Richards, '71
Ira J. Kalis Cohen, '78
Wayne A. McWilliams, '79
Keith D. Osborn, '80
Alan J. Sacks, '80
John M. DiGrazia, '82
Jeffrey Jones, '85
Kathleen Devine Hearne, '87
Steven E. Hearne, '89

advancement



Three new Elm member from the class of 1969 include Paul J. Connors, Emile A. Bendit, and Edwin E. Mohler

Babak J. Jamasbi, '89
Michele Cooper, '96
Otha Myles, '98

Faculty

Dr. Mordecai P. Blaustein
Dr. Kevin S. Ferentz

Friends

Jane Anderson
Neil & Janice Harrison
Dr. Frederic Huppe-Gourgues
Ronald E. King Sr.
Gerald G. & Lilo J. Leeds
Lee Melsby
Shannon Parks
Martin R. Resnick
Dr. Sonya & Thomas Ricketts

Silver Circle

Alumni

Ramon F. Roig Jr., '59
John N. Browell, '61
Robert M. Beazley, '63
Kathryn A. Peroutka, '75
Jeffrey L. Quartner, '75
Sandra D. L. Quartner, '75

D. Stewart Ginsberg, '76
Roy E. Bands Jr., '84
Lurette S. Semmes, '84

Friends

Ronald & Carolyn Cooper
James Dahl
Brian D. Goldman
Hilda Perl Goodwin
Fred F. Mirmiran
Martha Parsons
Dr. Milton Rock
Leroy & Donna Shapiro

1807 Circle

Alumni

Arthur V. Milholland, '69 &
Dr. Lucille A. Mostello
Steven J. Gross, '73 & Dr.
Enid K. Gross
Brian K. Cooley, '82
Maurice N. Reid, '99

Faculty

Drs. M. Carlyle Crenshaw
Jr. & Lillian Blackmon-
Crenshaw

Friends

D. Stuart Bowers
Chuck Chokshi
Bobby & Sherrie R. Frankel
Fred M. & Roben I. Gerson
The Hales Family Foundation, Inc.
Michele H. Mittelman
Sylvan J. Naron



New 1807 Circle member Lillian Blackmon Crenshaw, MD
with Dean E. Albert Reece, MD, PhD, MBA

Physician-Investor **outlook**

It is our belief that the market gets the blues from uncertainty even more than from outright bad news. With this in mind, we feel that the main sources of uncertainty are that the length and the depth of this economic decline are unknowable, that policy actions are indeterminate and suboptimal given the current political environment, and that the financials sector woes continue with their requisite impact on credit creation. While significant uncertainties and downside risks remain, there does seem to be some improvement across all three of these sources of uncertainty. It remains to be seen if the early signs of economic stability will be sustainable. We continue to find the investment downside risk most acute in the developed international markets when we combine our concerns about the economic downside risks with our consideration of foreign exchange risk.

We fully expect the short term to continue to be volatile as the market struggles with news flow regarding economic indicators, corporate earnings, policy actions, and geopolitical concerns. We believe that stocks do provide an attractive risk versus reward for investors with a sufficient investment holding period and the ability to withstand volatility. We continue to recommend that investors work with their advisors to select an appropriate asset allocation that retains sufficient so-called "safe" assets—defined as high-quality bond holdings and cash—to provide an appropriate level of assets and cash flow to ride out the volatility in the financial markets while balancing the needs to grow real purchasing power to reach financial goals. An allocation to high-grade fixed income helps reduce risk by moving investors up the capital structure senior to equities and providing significant cash flows while the numerous uncertainties remain.

We believe that developed international economies may lag the United States coming out of this downturn, and we prefer to reduce foreign-exchange risk because the dollar has been shown to be a safe haven during times of global turmoil. Emerging markets seem to combine some different risk and reward characteristics than many developed markets and seem to be showing early signs of stabilization. In general, their banking systems seem sound, but their economies are subject to steeper downturns due to their more cyclical economies and reliance on exports. Emerging markets equity returns historically have been more sensitive to commodity prices than the

S&P500 or MSCI EAFE, which makes them attractive in terms of an inflation hedge. The problems in the emerging markets are in our opinion cyclical and not structural in nature. It seems likely that emerging markets will continue their march toward closing the gap with developed economies, which should be very positive for future long-term emerging market returns.

Poorly functioning capital markets and the credit

crunch, against the backdrop of a weak global economy, pose a higher threat to lower-quality and highly leveraged companies, but the high-quality, conservatively financed companies are likely in the best position to benefit from the situation, because they can acquire assets and gain market share at a discount in order to increase shareholder value. Companies with weak balance sheets and less-robust business models have a much higher risk to their survival. 🏠

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This column is prepared by Doug Holthaus, vice president and relationship manager at PNC Wealth Management. He can be reached at 410-237-4590 or douglas.holthaus@pnc.com.

classnotes

1940s **1942:** William J. Senter of Raleigh, N.C., is 91 years old and still going strong. He continues living at home and enjoying life. **1943:** Augustus H. Frye Jr., of Lookout Mountain, Tenn., reports that a broken hip forced him into retirement at age 91. **1947:** Benjamin M. Gold of Rocky Mount, N.C., has been retired with disability since 1980.

1950s **1954:** Thomas E. Hunt Jr., of Baltimore was recently featured on the front page of the *Cum-berland Times/News* for his volunteer work at the League for Crippled Children at the Allegany County Health Department. A pediatric orthopaedic surgeon, Hunt's 44 years is the longest service of all surgeons who have volunteered there. In addition, the Baltimore City Medical Society announced that an anonymous donor had established a history of medicine lecture-ship in Hunt's name. **1955:** Joseph W. Cavallaro of Frankford, W.Va., is busy traveling and remains active with the Frostburg State Science Center where he donated his taxidermy collection. **1959:** August D. King Jr., and wife Netta of Lutherville, Md., celebrated their 50th wedding anniversary on September 6, 2008, with their five children and 13 grandchildren.

1960s **1961:** Carlos E. Girod of San Juan, P.R., received the professor emeritus award from the University of Puerto Rico School of Medicine during the June 2009 commencement ceremonies. **1964:** Harold C. Standiford of Baltimore was recently honored by Maryland's department of medicine by having the VA infectious diseases clinic named in his honor. Standiford joined the faculty at the VA in 1971 and recently retired. **1967:** John Wm. Gareis of Lancaster, Pa., reports that daughter Jennifer appears regularly as Donna Logan on the *Bold and Beautiful*, which airs on CBS. His other daughter Rebecca owns The Crab Place, an online seafood company.

1970s **1971:** Michael J. Maloney of Cincinnati was married to Marta Pisarska, MD, a psychiatric colleague,

on April 18, 2009. **Robert J. Neborsky** of Del Mar, Calif., delivered a special presentation on short-term dynamic psychotherapy in London on June 6. The event was organized by the British Psychoanalytic Council in association with the Anna Freud Center. **1973:** Bruce L. Beck of Prince Frederick, Md., reports that he is still going strong after 31 years in his private practice of orthopaedic surgery. **1974:** William C. Crawford III and wife Jane of Sheboygan, Wis., announced that daughter Allison will be starting medical school at the University of Illinois College of Medicine in Chicago this fall. **Dawn V. Obrecht** of Steamboat Spring, Colo., has a column in her local newspaper and recently published *Mission Possible, A Missionary Doctor's Journey of Healing*, available on Amazon. **1975:** Linda S. Bartram of Bremerton, Wash., retired from practice in May 2006, and enjoys quilting for her two grandchildren and playing the electric guitar. **Kenneth V. Iserson** of Tucson, Ariz., is spending 75 days as the Project Hope CMO in the Caribbean and South and Central America. His team will be based aboard the U.S. Navy ship *Comfort*. And later he plans to spend five months as CMO at the McMurdo Research Station in Antarctica. These trips come on the heels of a stint in Zambia with a Massachusetts General Hospital-based NGO. His newest book *Improvvised Medicine: Delivering Care with Limited Resources* will be published by Cambridge University Press in fall. **1979:** Thomas B. Volatile of Tyler, Tex., works at the Trinity Clinic, a 450-bed hospital and 250-member multi-specialty clinic. Specifically, he is with a seven-person orthopaedic clinic, caring for 26 high school football teams and colleges.

1980s **1982:** Eliot L. Siegel of Severna Park, Md., is a fellow in the American College of Radiology. Siegel is a professor in the department of diagnostic radiology at Maryland. **1984:** Stephen C. Anderson of St. Petersburg, Fla., is CEO of Anderson Radiology and one of the team physicians for the Tampa Bay Rays. His practices specialize in sports medicine MRI. He and wife Kathleen report that daughter Katie graduated from Duke

this spring, while daughter Caroline begins at Central Florida in fall. Anderson enjoys fly fishing on their Montana property.

1985: Kathleen Thomas Baskett of Missoula, Mont., is medical director of the St. Vincent Healthcare Weight Management Clinic in Billings, caring for both medical and surgical weight loss patients. She published *Moving Forward: The Weight to a Healthier Weight*. Baskett and husband Mark are enjoying life with a teenage daughter after raising four boys. She will be attending culinary school in August, leaving the two parents as empty nesters.

Charles S. Hames of San Diego was promoted to captain in the U.S. Navy and appointed department head of gastroenterology at Naval Medical Center San Diego. He recently returned from a four-month deployment aboard USNS *Mercy* doing humanitarian missions in a number of countries including Vietnam and the Philippines. **1986:** Pam Goose of Fredericksburg, Va., has changed her name to Pam E. Warren. **Lisa A. Scheinin** of Redondo Beach, Calif., is approaching her 1,400th roller coaster ride, following recent trips to

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Peru, China, Vietnam, Thailand, and several trips to Japan. She was one of only a handful of Americans to visit North Korea where she enjoyed some rides. Scheinin is working toward her fourth-degree black belt in taekwondo which she hopes to earn within the next two years. **1987: Patrick Fitch** and wife Ruth of Clarksville, Tenn., celebrated their 25th wedding anniversary last summer. Daughter Amanda has enrolled in Vanderbilt University's nurse practitioner graduate program, and twin Jessica is working on a second bachelor's degree in nursing at Eastern Tennessee State University. Son Dylan is a music major at Belmont University in Nashville.

1990s **1991: Elliot E. Cazes** of Tampa, Fla., is busy with his solo OB/GYN practice and speaking nationally on hereditary breast and ovarian cancer. **1996: Rebecca Appleton** of Mooresville, N.C., is practicing family medicine near Charlotte. She is happily married to Andy Castillo and mother of six children. **1998: Ryohei K. Imai** of Lapalma, Calif., is a hospitalist for the Southern California Permanente Medical Group. He and wife Mary were expecting their third child.

2000s **2000: Debra Schwab** and husband **Jay Weiner**, '97, of Phoenix, Md., announce the birth of Maya Rachel, their second, on May 13, 2008. She was delivered by Jay and joins brother Ben, age three. **2001: Julia Anixt** and husband Scott of Cincinnati, Ohio, announce the birth of Emma Lauren on February 24. Anixt specializes in developmental and behavioral pediatrics at Cincinnati Children's Hospital. ♡



Emma Lauren Anixt

Teresa I. Kulie of Madison, Wis., is the AOA chapter faculty councilor at the University of Wisconsin.

2002: Scott M. Katzen of Columbia, Md., is remaining at Maryland for an

interventional cardiology fellowship, following completion of a cardiology fellowship in June. **2003: Richard A. Tempel** and wife Amanda of Celebration, Fla., proudly announce the arrival of Logan Matthias, their first, on April 9. Tempel works for Florida Emergency Physicians in Orlando. **2005: Christopher K. Grybauskas** of Los Angeles announces his engagement to Lily Denton of Columbus, Ohio. **2006: Tara Cook** of Iowa City, Iowa, misses her friends back home as she completes her third year of neurology training at the University of Iowa. 🏠

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Aurora F. Alberti-Gordon, '41
Bethesda, Md.
March 22, 2009

Dr. Alberti-Gordon received training at Jersey City Medical Center in Newark, N.J., and the Children's National Medical Center in Washington, D.C. She received additional training in pediatric allergy & immunology and for several years worked at the Andrew Rader U.S. Army Allergy Clinic in Fort Myer, Va. She enjoyed writing poetry and had several pieces of her work published. She was also an outspoken supporter of animal rights.

Paul C. Kundahl, '42
Mercer Island, Wash.
February 21, 2009

Myles E. Drake, '44
Columbus, Ohio
September 3, 2006

Dr. Drake stayed at Maryland for internship and residency training in pediatrics, before accepting a fellowship in infectious diseases at Children's Hospital of Pennsylvania. His primary focus was pediatrics with a sub-specialty in mental retardation and infectious diseases. Drake served as president of the American Heart Association, Cumberland County Medical Society, the New Jersey section of the American Pediatric Society, and he headed the staffs at Newcomb Hospital in Vineland, N.J., and Elmer Hospital in Elmer, N.J. He maintained an affiliation with the University of Pennsylvania and served on the NIH grants committee. He enjoyed golf and classical music. Drake was preceded in death by wife Edythe and is survived by one son.

Francis K. Machata, '47
North Kingstown, R.I.
March 30, 2009

Wilson Memorial Hospital in Johnson City, N.Y., was the site of Dr. Machata's internship, followed by residency training in internal medicine at Biggs Memorial Hospital in Ithaca and St. Mary's Hospital in Rochester. During the Korean War, Machata served with the U.S. Air Force at Goose Bay, Labrador,

Thule, Greenland as well as Mitchell Air Force Base in New York. After the war, he practiced internal medicine and developed a reputation for solving perplexing cases. Colleagues often referred patients to him. His career was hampered by illness, however, as in 1959, he developed hepatitis and had relapses in 1961, 1966, and 1971. From 1966 until retirement in 1983, Machata served as an industrial physician for Eastman Kodak Company. He enjoyed reading, golf, gardening, and he had a large collection of classical 33" records. Machata could write and speak Slovak and had visited Czechoslovakia three times. He is survived by wife Joan, three sons, one daughter, and four grandchildren.

William H. Slasman, '53
Hagerstown, Md.
March 14, 2009

During World War II, Dr. Slasman served in the U.S. Navy before attending medical school. Upon graduation, he practiced otolaryngology and later, phlebology. He practiced in Baltimore until 1965 when he relocated to Hagerstown. Slasman was past president of the Washington County Medical Society and was a member of the Washington County Hospital Staff Executive Committee. He was a charter member of the Hagerstown Symphony Orchestra board and past president of the Hagerstown Rotary Club. Slasman is survived by wife Annette, three daughters, and six grandchildren. He was preceded in death by one granddaughter.

William J. Marshall, '58
Hilliard, Ohio
June 9, 2009

Dr. Marshall performed his internship at Philadelphia General Hospital, followed by residency training in internal medicine and a cardiology fellowship at Cincinnati General Hospital. From 1964 to 1968, he was an investigator at the Cox Heart Institute in Kettering. Marshall became director of the coronary intensive care unit at Kettering Memorial Hospital in 1967 and director of its non-invasive cardiac lab and inpatient

cardiac rehabilitation center in 1972. He stepped down from these positions in 1992 when he also retired from Dayton Internal Medicine Associates, a practice he began in 1968. Appointments included associate dean for clinical affairs at Wright State University School of Medicine and president of the Montgomery County Health District in 1990. He and wife Barbara established an endowed professorship in motion disorders at Maryland. Marshall enjoyed reading, sports, fishing, and spending time with grandchildren. He is survived by wife Barbara, three children, and eight grandchildren.

John N. Diaconis, '61
Timonium, Md.
March 29, 2009

After an internship at Maryland and the beginning of a surgery residency here, Dr. Diaconis switched to radiology and passed his board examinations in 1967. He began practicing radiology at Presbyterian Hospital in Dallas and served as an assistant clinical professor at Texas Southwestern Medical School. He returned to Maryland and joined the faculty in 1972. Diaconis was credited with improving the quality of instruction for residents and students, and he initiated daily conferences and a lecture series within the department which continue today. Diaconis served as acting chair of the department for four years when chairman **John Dennis, '45**, was appointed dean, and for a time he worked with the local VA hospitals affiliated with Maryland. Diaconis retired in 1999. He was a member of the Elm Society of the John Beale Davidge Alliance, the medical school's society for major donors. He is survived by one son, one daughter, and two grandchildren. His marriage to wife Linda ended in divorce.

Ronald B. Causton, '78

Destin, Fla.

January 5, 2009

Dr. Causton practiced family and geriatric medicine in Destin and South Walton, Florida, for 26 years. He enjoyed fast cars, motorcycles, and boats. He is survived by two children and two grandchildren.

Mark E. "Duke" Bainum, '80

Honolulu

June 9, 2009

Dr. Bainum performed his internship and residency training in surgery at the University of Hawaii, working at Queens, Kuakini, Kaiser, and St. Francis hospitals. In 1984, he responded to an appeal for volunteer doctors, serving for four months as the lone physician in a 36-bed hospital in Himalayan Nepal. Developing an interest in public health, Bainum returned to Honolulu and was elected to the Honolulu House of Representatives in 1990. He later served two four-year terms on the Honolulu City Council, before receiving a degree in business and serving as chairman of Diamond State Bank in Arkansas from 1999 to 2004. Later in 2004, he was defeated in an election for Honolulu mayor. He had recently been re-elected to the city council. Bainum is survived by wife Jennifer and two sons. He is also survived by brother **Timothy E., '76**

Faculty

Charles A. Barraclough, PhD

Baltimore

April 19, 2009

Dr. Barraclough was a physiologist and neuroendocrinologist at Maryland from 1962 to 1993. Born in Vineland, N.J., Barraclough earned a degree in biology from St. Joseph's University in Philadelphia before attending Rutgers University for a master's and doctorate degree in endocrinology. He was a post-doctorate

fellow and later an assistant professor at UCLA Medical School where he studied the sexual differential in the brain, specifically how testosterone exposure permanently alters the brain control of reproductive processes in men and women. He furthered his studies at the University of Cambridge in 1961 before joining the faculty at Maryland the following year. While at Maryland, Barraclough established the center for studies in reproduction in 1985 where he continued his work on how neurotransmitters regulate pituitary gland secretions and ovulation. He was widely published. Upon retirement in 1993, Barraclough was named professor emeritus. He enjoyed golf and was a member of the Country Club of Maryland. Barraclough also liked gardening and music, and he attended Baltimore Colts games. He is survived by wife Eleanor, two daughters, and four grandchildren.

Emidio A. Bianco, MD

Baltimore

March 17, 2009

Dr. Bianco was an associate professor of medicine at Maryland from 1983 to 1992. Born in Baltimore, Bianco served as a medical technician with the MASH unit in Germany during World War II and was discharged with the rank of master sergeant. He earned his medical degree from Georgetown University in 1954 and established a private practice in Woodlawn. He later moved near St. Agnes Hospital and in 1960 became the hospital's first director of medical education. In 1967, he became chief of medicine and two years later was promoted to medical director. He left St. Agnes in 1975 to become medical director for Mercy Southern Health Center and afterwards became chairman of the department of emergency medicine at Hanover (Pa.) General Hospital. His appointment at Maryland followed, and he also taught anatomy at Georgetown University. Bianco earned a law degree from the University of Baltimore in 1978, motivated by the volume

of malpractice and frivolous lawsuits. From 1978 until retirement in 1995, he served as medicolegal officer and assistant chairman for professional affairs in the legal medicine department at the Armed Forces Institute of Pathology. He enjoyed music and was an accomplished violinist as well as a season ticket holder to the Baltimore Symphony Orchestra. He also attended Baltimore Colts and Orioles games. Bianco is survived by six daughters, two sons, 17 grandchildren and four great-grandchildren. His marriage to Mary Lancelotta ended in divorce.

Edward W. Campbell Jr., MD

Lutherville, Md

June 2, 2009

Dr. Campbell was a professor in the department of urology, serving at Maryland from 1964 to 1997. He was born in Philadelphia and earned an undergraduate degree from Amherst College and medical degree from Hahnemann Medical College. He moved to Baltimore in 1959 to study at the Brady Urological Institute at Johns Hopkins Hospital and during that time received training in general surgery at Maryland. In 1964, Campbell joined the late **John D. Young Jr., '41**, and **Earl P. Galleher Jr., MD**, in a urological partnership at Maryland where they trained residents and taught students. His specific interest was neurological dysfunction relating to urological patients. In 1985, he served as president of the medical center's medical board, and in 1992 was president of the Mid-Atlantic section of the American Urologic Association. He continued working in the urology clinic after retirement in 1997. Campbell enjoyed sailing on the Chesapeake Bay, playing golf, and spending time with grandchildren. He is survived by wife Patty, one son, two daughters, and six grandchildren. 🏠



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Schedule*

135th Medical Alumni Association Reunion April 30 & May 1, 2010

Friday, April 30

8:30-10:30 am	Open House, Check-in & Continental Breakfast
9:00-9:45 am	Financial, Retirement, & Estate Planning
10:00-11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am-1:15 pm	135th MAA Luncheon & Business Meeting
1:30-3:00 pm	17th Historical Clinicopathological Conference
1:30-3:30 pm	Afternoon Check-in, Davidge Hall
3:30-4:30 pm	School of Medicine Tour
6:30-9:30 pm	The Happening at the Harbor, Baltimore Museum of Industry

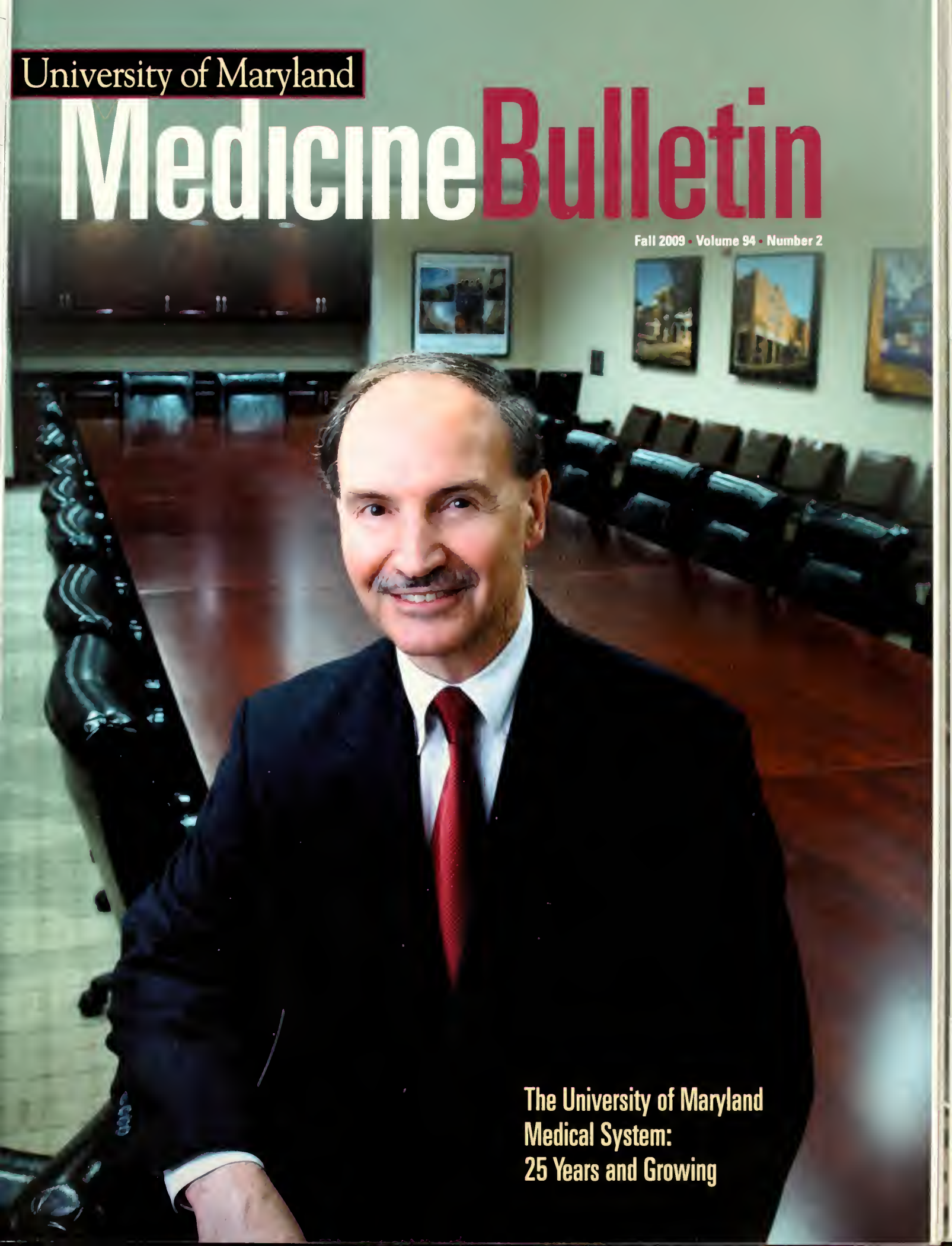
Saturday, May 1

8:30 am-1:30 pm	Open House & Check-In
8:30-10:00 am	Continental Breakfast, Davidge Hall
10:00-11:00 am	Campus Walking Tour
11:00-11:45 am	Restoring Davidge Hall: An Update
11:30 am-2:00 pm	Complimentary Picnic, Davidge Hall
1:00-1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00-2:30 pm	Baltimore City Land & Sea Tour
1:35 pm	Baltimore Orioles Baseball
Evening	Class Reunions (years ending in "0" and "5")

University of Maryland

MedicineBulletin

Fall 2009 • Volume 94 • Number 2

A man with a mustache, wearing a dark suit, white shirt, and red tie, is seated in a large, ornate black leather chair. He is smiling and looking towards the camera. The background shows a large conference room with a long wooden table, several other black leather chairs, and framed pictures on the wall.

The University of Maryland
Medical System:
25 Years and Growing



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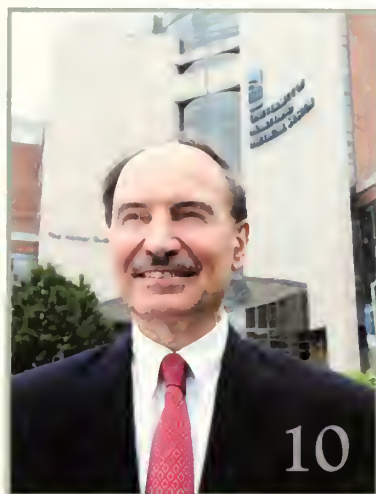
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MedicineBulletin

University of Maryland Medical Alumni Association & School of Medicine



The University of Maryland Medical System: 25 Years and Growing 10

The privatization of Maryland's teaching hospital—the University of Maryland Medical System—occurred a quarter-century ago. Since that time the once debt-ridden enterprise has been transformed into a thriving nine-member hospital system serving Maryland and the world. The secret to its success has been maintaining a working synergy with the University of Maryland School of Medicine.

On the cover, UMMS president and CEO Robert A. Chrenck in the executive board room. Photo by Richard Lippenholtz

The Medical Alumni Association Honor Roll 16

Alumni, faculty, and friends who supported the medical school with gifts to the Medical Alumni Association between July 1, 2008 and June 30, 2009 are recognized in this report, including members of the John Beale Davidge Alliance, the school's most generous donors.

Alumnus Profile: Kenneth W. Rictor, '85 38

Reforming Healthcare—In Russia

A Maryland graduate is playing a pivotal role in the healthcare debate. What's unusual about this story is that Kenneth W. Rictor, '85, is focusing his energy on the health system in Russia, not America. In November, he makes his fourth humanitarian mission there, but this time he also plans to work with the Russian Minister of Health to establish ethical guidelines for physicians.



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As I followed the health care debate taking place on Capitol Hill this summer, I paused to think about how pleased I am about the leadership role the school of medicine has taken in biomedical research and health care. I also found myself confounded, however, by some of the contentious discussions surrounding preventive care, a practice that we have long identified as a first line of defense in confronting the rising costs of medical care.

Preventive medical care and community outreach have been enduring pursuits for our school, and a clear commitment to this investment in our future is evident in our department of pediatrics. It was formally founded in 1948 by the late **Edmund Bradley, MD**, who disagreed with the prevailing medical practice at the time of treating children as "little adults." Today, the department remains progressive and forward-thinking in its approach to pediatric care.

Under the leadership of **Steven Czinn, MD**, the department with its 16 sub-specialty divisions is committed to a robust community service mission, emphasizing preventive care, especially among at-risk populations. Together, with our partners, the University of Maryland Medical Center and Mercy Medical Center, we are confronting some of the most critical challenges facing young people today.

Childhood obesity is one area of preventive care on which our pediatricians focus. The issue generated rather heated discussions among members of Congress this summer, despite the fact that the CDC has identified childhood obesity as a leading health concern and one that disproportionately affects low-income, minority youth. The department's division of growth and nutrition is conducting a school-based obesity prevention and intervention program known as *Challenge! In Schools*. The program targets urban, African-American girls in Baltimore City middle schools and works in conjunction with the YMCA to help participants set behavior modification goals for healthy eating and exercise. The *TOPS* (Tips on Parenting Study) is also conducted within the division of growth and nutrition and is a collaborative effort with the Anne Arundel County WIC Program. It is designed to implement strategies to prevent overweight among toddlers, promote life-long healthy eating and exercise regimens, and provide maternal assistance in developing healthy diet and fitness patterns for both mothers and their children.

Diabetes is one of the more serious health risks associated with obesity. One study reported that Americans spend one-tenth of total health-care dollars on diabetes-related medical conditions. Our division of adolescent medicine provides educational and school- and hospital-based clinical services related to diabetes management, nutrition and obesity, and other subspecialty care. Its *YUHIP* (Youth Urban Health Information Project) is a health education program linking teens to youth-friendly resources in Baltimore.

Other divisions within pediatrics are also confronting these issues. The internationally recognized division of endocrinology's pediatric diabetes program has joined forces with our world-renowned Joslin Diabetes Center to provide care to our youngest patients. In July, the center for advanced fetal care began testing a new fetal monitor for high risk pregnancies. The iPod-sized device allows nearly 24-hours of monitoring of an unborn infant's heart-beat and movement, and hopes are high for women with medical conditions that put their babies at risk for such problems as diabetes-induced birth defects.

For over six decades, our department of pediatrics has been driven by the ideals of community outreach and cutting edge medical services envisioned by its founder. Whether providing educational resources or preventive and clinical care, the department is on the frontlines in addressing the needs of our young citizens. 🏠



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
University of Maryland
John Z. and Akiko K. Bowers Distinguished
Professor and Dean, School of Medicine

Childhood obesity is one area of preventive care on which our pediatricians focus.

EVENTS | Edwards, '77, Installed as President of NMA

Willarda V. Edwards, '77, was installed as president of the National Medical Association (NMA) in July. The ceremony was held during the annual meeting of the NMA in Las Vegas. The Medical Alumni Association honored Edwards by staging its annual reception in her honor. The event, held at the Mandalay Bay Hotel & Casino on July 27 attracted 65 alumni, guests and friends of the medical school. Edwards, an internist, is president and chief operating officer for the Sickle Cell Disease Association of America, Inc., located in Baltimore. She is a past president of MedChi, the Baltimore City Medical Society, and the Monumental City Medical Society. She is the second Maryland graduate to serve the one-year term as president, as the late Walter W. Shervington, '63, held the post in the late 1990s.



Attendees at the MAA-sponsored reception of the NMA included SOM dean E. Albert Reece MD, PhD, MBA, Charlotte Jones-Burton, '99, Elijah Saunders, '60, Willarda V. Edwards, '77, and Robert M. Phillips, '82

EVENTS | Third Annual Mini-Med School for Kids



Deirdre Parsons, MS, MT assistant professor, teaching hand hygiene


More than 30 children between the ages of five and 16 had a taste of medical school throughout July and August when the medical school held its third annual Mini-Med School for Kids at the Salvation Army's Franklin Square Boys & Girls Club summer camp in west Baltimore.

The program, held once a week for six weeks, targets children from the underserved community in hopes of delivering key messages about important and relevant health and lifestyle issues. These include nutrition, allergies and asthma, and stress relief and anger management. Faculty participants included Yvette Rooks, MD, assistant professor of family medicine, Mary Beth Bollinger, DO, associate professor of pediatrics, Gina Perez, MD, assistant professor of psychiatry, and David Pumplun, PhD, adjunct professor of anatomy and neurobiology.

EVENTS

Project Medical Education

Members of the Maryland Legislature and other state officials got a taste of life as medical students on August 10. It was all part of Project Medical Education, an initiative of the Association of American Medical Colleges to educate lawmakers and other policymakers about the importance of medical education, its complex funding mechanisms and the essential role of government in providing financial support.

As they arrived, the participants were asked to don white coats, the traditional garb of medicine. Then it was off to class, which started—as the first year of medical school does for all medical students here—in the anatomy lab. **Larry Anderson, PhD**, a professor in the department of anatomy and neurobiology, explained the importance of the 10-week anatomy course for first-year students and let the lawmakers take a look at one of the cadavers used for study. Participants then toured medical school labs, classrooms and patient care areas, seeing firsthand the costly technology required to educate medical students and treat patients in the 21st century. They heard research presentations from faculty, including **Karen L. Kotloff, MD**, who is conducting the first trials of an H1N1 flu vaccine at Maryland. There were also discussions on health disparities, student debt, and the importance of state funding for new facilities like HSF III to help keep the school competitive. The day ended with an opportunity to speak with real medical students, not only about their futures but the future of medicine, as well. Delegate Jim Mathias from Maryland's eastern shore, and Senator Jim Robey from eastern Howard County were among the participants. 



Lawmakers, students and medical school Dean E. Albert Reece, MD, PhD, MBA, at the conclusion of the project

2010 FUND FOR MEDICINE Gala

UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE

WHEN Saturday, March 27, 2010 TIME 6:30 pm until 12 midnight WHERE The Baltimore Marriott Waterfront 700 Aliceanna Street | Baltimore, Maryland 21202

Transitions

Appointments

Stephen N. Davis, MBBS, an internationally recognized endocrinologist and research scientist, was named the Theodore E. Woodward Endowed Chair, and the professor and chairman of the department of medicine in August. In his new role, Davis is also physician-in-chief at the medical center.

Davis was recruited from Vanderbilt University School of Medicine to lead the medical school's largest department of 300 full-time faculty members of both physicians and scientists. He is an endocrinologist who has devoted his career to research and patient care, focusing on treating adults with diabetes and metabolic disorders, as well as studying the biological basis of certain diabetes-related complications.

A native of the United Kingdom, Davis earned his medical degree from London University and did his specialty training at the Royal College of Physicians. Davis joined Vanderbilt University School of Medicine in 1988. He was promoted to director of the division of diabetes, endocrinology and metabolism, and professor of medicine, molecular physiology and biophysics. Most recently, he also served as associate director of the general clinical research center at Vanderbilt, and for five years, ending in 2002, he was director of the Nashville Veterans Affairs/Juvenile Diabetes Foundation International Research and Training Center.

He has been recognized with many distinguished awards throughout his career, including the Novartis Award for Diabetes Research in 2000—considered to be the highest honor in that field of research. He was named a fellow of the American College of Physicians in 2009, a fellow of the American College of Endocrinologists in 2008 and a fellow of the Royal College of Physicians in 2001. Davis currently leads research projects with extramural funding totaling \$10 million. He and wife Frances have three sons.

Alan I. Faden, MD, a scientist and physician with extensive expertise in the treatment of brain trauma and other central nervous system injuries, was appointed director of the University of Maryland Charles "McC." Mathias, Jr., National Study Center for Trauma and Emergency Medical Systems, a shock, trauma and anesthesiology research (STAR) organized research center. Faden joined the University of Maryland School of Medicine faculty on July 1 as a professor, with a primary appointment in the department of anesthesiology and membership in the program in trauma.

Faden was recruited from Georgetown University, where he developed a nationally renowned research program in brain injury and served in a variety of clinical, research and administrative roles, including as dean of research. He formerly held professorships in neuroscience, neurology, pharmacology and pediatrics. He brings more than \$7 million in research grants, including four major grants from the National Institutes of Health, as well as 15 members of his research team to the University of Maryland School of Medicine.



Stephen N. Davis, MBBS



Alan I. Faden, MD

Battling H1N1—And More

A predictable annual occurrence, the flu virus is known to be promiscuous in that it swaps its genetic information with other viruses, thereby changing to allow it to escape the immune system. Every 30 to 50 years, those changes are significant, attacking immunity in a major way and causing a pandemic, such as the 1918 Spanish flu that spread worldwide, killing 50 to 100 million people.

Karen L. Kotloff, MD, professor of pediatrics and medicine, and chief of the community studies section of the center for vaccine development (CVD), reports the H1N1 (swine) flu, continues to spread in pandemic fashion. Although most cases are mild, the coming flu season may be one with many more hospitalizations and even deaths, due to the large number of susceptible individuals.

"Every flu virus is serious, and on average is responsible for about 35,000 deaths annually," says Kotloff, who also serves as chief of clinical services at the center. "Swine flu is unusual in that it attacks younger, rather than older people, suggesting that it has some element to which older persons have immunity."

Research continues toward development of a vaccine to broadly cover flu strains, regardless of their genetic changes. In the interim, however, testing of the newly developed vaccines for the swine variety is underway at Maryland through the National Institutes of Health (NIH).

"The response has been impressive," says Kotloff, who has already enrolled approximately 250 adults and children in the trials. She explains that the CVD is one of eight units across the country designed to evaluate vaccines requested by the NIH when there is need for rapid testing due to an emerging infection, threat of bioterrorism, or because a vaccine lacks commercial investment potential. Kotloff is principal investigator of the seven-year \$26 million grant supporting the University of Maryland's unit.

Kotloff first came to the University in 1983 to do a pediatric infectious disease fellowship. After joining the faculty of the department of pediatrics in 1987, she began to work on clinical vaccine trials and epidemiologic studies of infectious diseases in children. In 2001 her international work increased, particularly at the CVD's field site in Mali, West Africa.




Karen L. Kotloff, MD

She talks of two major programs in Mali that consume a considerable portion of her studies. "We're looking at the prevalence of rheumatic heart disease in Malian children," she says. "What we have learned is that, when a child develops a sore throat in that country, the illness probably won't be seen as a medical emergency. Even if it is, there may not be proper diagnosis and treatment available." Left untreated, up to three percent of strep throats can result in rheumatic heart disease. She states that a random sampling of school age children resulted in serious concern about the high rate of rheumatic heart disease.

Kotloff heads clinical and epidemiology aspects of the Global Enterics Multi-center Study, an analysis of diarrhea in children under five in seven developing countries. The program includes sites in four African and three Asian countries, where the frequency of moderate to frequent diarrhea is measured, then followed by tests to determine the cause.

"We hope it will help us develop preventive strategies," she reports. "Worldwide, diarrhea is the leading cause of death for children under five. Once we know the landscape, hopefully we can develop interventions here in our laboratories."

Meanwhile, back home, Kotloff continues to play a primary role in the battle against flu through current activities aimed at the threat of the H1N1 strain. 



First Steps Toward Cancer Cure?


TODAY'S ABILITY to effectively treat cancers is remarkable when one considers the diversity and complexity of the malignancies that are grouped under the one word, "cancer." Radiation and many of the drugs used in chemotherapy kill cancer cells by damaging their genetic information. Unfortunately these agents also kill normal cells in the process, and so a key goal in the war against cancer continues to be the development of therapies that selectively kill only cancer cells.

Alan Tomkinson, PhD, professor of radiation oncology, says his work emanates from the clinical observations that cancer treatments using DNA damaging agents work because cancer cells are killed more effectively than normal cells. "This implies that cancer cells respond differently to DNA damage than normal cells," reports the researcher at the Marlene and Stuart Greenebaum Cancer Center. "To improve this type of cancer therapy, we need to understand more about the DNA repair pathways, and how they contribute to cell survival in both normal and cancer cells."

When Tomkinson was first recruited to the cancer center six years ago, he was part of a large multi-institutional project grant from the National Cancer Institute, studying DNA repair proteins. While working with a University of Washington School of Medicine crystallographer, Tom Ellenberger, PhD, they determined the structure of a DNA repair protein that completes the last step of many DNA repair pathways. This structure provided important insights about how the protein works, findings that were described in an article

aided drug design center in Maryland's school of pharmacy. Together they identified a series of small molecule inhibitors of DNA repair that not only inhibit the purified repair protein, but are also active in cultured human cells. In a *Cancer Research* paper published in 2008, they reported that, as expected, the DNA repair inhibitors increase cell death by DNA damaging agents. More importantly, the DNA repair inhibitors specifically increase the sensitivity of cancer cells to DNA damage. At the same time, Tomkinson has been working with **Feyruz Rassool, PhD**, associate professor of radiation oncology, who is studying abnormal DNA repair in leukemia cells and how this contributes to disease progression.

"Our collaboration has been a good fit," Tomkinson says. "I'm more interested in how the repair pathways work, and Dr. Rassool is interested in how these pathways are altered in leukemias. Together we are asking whether or not we can use the DNA repair inhibitors as drugs to specifically target the abnormal DNA repair in leukemia cells." Currently, this strategy is being evaluated in mouse models of leukemia with the goal of generating outcomes that will support further drug development, and the design of clinical trials for human leukemia. If that road appears long and arduous, Tomkinson doesn't seem daunted by the possibility of setbacks.

"My research is continually evolving," he says. "As you move into each new area of an investigation, there is a necessary learning curve, but that part of the process makes it interesting. Right now, it's exciting as we look for positive results that eventually may lead to human trials." 



Alan Tomkinson, PhD



Feyruz Rassool, PhD

"I'm more interested in how the repair pathways work, and Dr. Rassool is interested in how these pathways are altered in leukemias. Together we are asking whether or not we can use the DNA repair inhibitors as drugs to specifically target the abnormal DNA repair in leukemia cells."

published in *Nature*. It also opened up a new avenue of research, a rational structure-based approach to identifying small molecule inhibitors of DNA repair.

Tomkinson began collaborating with Alexander D. MacKerell Jr., PhD, the director of the computer

Understanding Anti-Clotting Medication

Researchers at Maryland have identified a common gene variant carried by as many as a third of the general population that is believed to play a major role in determining why people do not respond to a popular anti-clotting medication, Plavix. Those not responding are at increased risk for subsequent heart attacks, strokes and other serious cardiovascular problems.

The results of the study, published in the August 26 issue of the *Journal of the American Medical Association* confirm a previously reported link between people's decreased response to Plavix, also known as clopidogrel, and common variations of the CYP2C19 gene. The study is the first to identify a common variant of this gene by using a sophisticated technique called a genome-wide association study to rapidly scan hundreds of thousands of genetic markers in the DNA of participants. More than 400 members of the Old Order Amish community in Pennsylvania took part in the study.

"By scanning the entire genome, we found compelling evidence that the CYP2C19 gene is a key determinant of how people respond to this medication,"

says the lead author, **Alan R. Shuldiner, MD**, professor of medicine and director of the program in genetics and genomic medicine. "We didn't detect any other common gene variants that appear to be as significant as CYP2C19, but our research suggests that people's response to clopidogrel is largely inherited and additional common and rare gene variants most likely are involved."

Shuldiner says he will continue his research on these gene variants. "The more we know about how genes affect people's response to medicines, the better able we are to develop effective new therapies and tailor treatment to an individual patient's genetic make-up," he says.

About 30 percent of the general population in America has the CYP2C19 variant identified in the study. Shuldiner says that

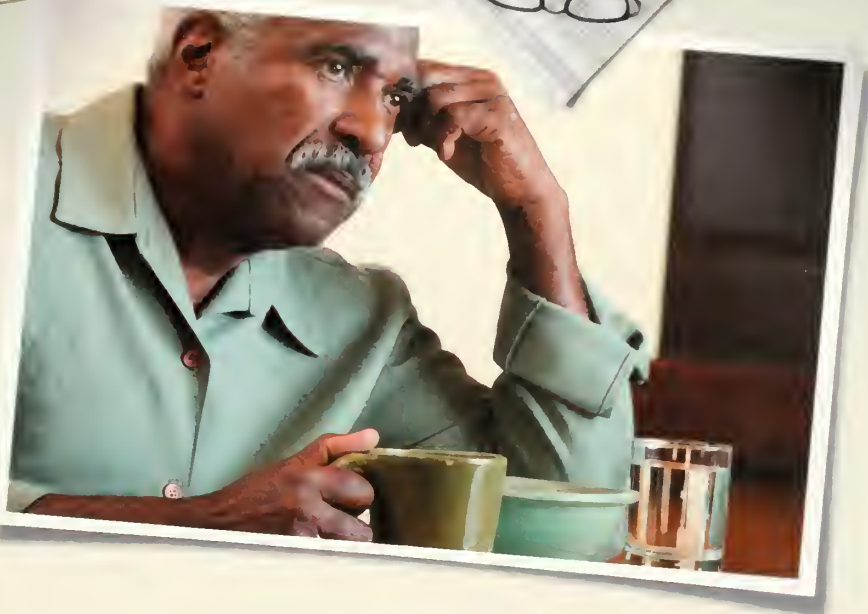
it can be detected by a simple genetic test using DNA from blood or saliva. "If people have the gene variant, they might need to take a higher dose of clopidogrel or a different medication altogether," he says, adding that more research is needed before such testing becomes routine.

Plavix is one of the world's best-selling medications. It is used to prevent platelets from sticking together and causing blood clots in patients with cardiovascular disease who are at risk of having future heart attacks and strokes. Despite its widespread use, up to 32 percent of people don't respond to the therapy, and as a result, experience serious cardiovascular events. Researchers don't know the exact reason, but they believe that one important factor is the difference among individuals in their ability to metabolize the drug due to variation in the CYP2C19 gene.

The research was funded in part by the National Institute of General Medical Sciences, part of the National Institutes of Health, and Sinai Hospital of Baltimore. 🏠



Alan Shuldiner, MD, has a long history of working with the Old Order Amish community in Pennsylvania.



He thinks one cancer radiation therapy is as accurate as another.

What he doesn't know is that the Calypso® System, with its GPS for the Body® technology, provides continuous-motion monitoring and precision guidance for radiation therapy. He doesn't know that, for the first time, doctors can track prostate tumors as they move, treat them with the appropriate amount of radiation and limit damage to surrounding healthy tissue. He doesn't know that the NCI-designated University of Maryland Greenebaum Cancer Center has this cutting-edge technology, or that it will have him back to his life in no time.



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Influenced by the reciprocal sympathy generated between UMHC and the University of Maryland School of Medicine (SOM), vision for a privatized hospital grew, and was realized when the state gave its approval, paving the way for the birth of UMMS.

Robert A. Čířencík, UMMS president and CEO

UNIVERSITY *of* MARYLAND MEDICAL SYSTEM

25

Years and Growing

There are several dramatic ways to commemorate the anniversary of an enterprise founded on mission and sound financial performance. Fireworks or hot air balloon exhibitions come to mind. However, while celebrating its 25th year as a private, not-for-profit system providing health care to Maryland residents, the University of Maryland Medical System (UMMS) quietly announced the addition of a new partner to its nine member hospitals located throughout the state. Although unheralded by public displays, the pleased affiliation with the Upper Chesapeake Health System, which is expected to become a full merger by 2013, nevertheless underlines UMMS' position as the state's premier health resource. More than any festive fanfare, it is a celebratory reminder of a quarter-century of unpayaltered growth.

By Rita M. Rooney

Executive Director, UMMS

Morton I. Rapoport, '60, the system's first chief executive officer, looks back to the early days. "We certainly weren't thinking of a system of nine or more hospitals back then," Rapoport says. "Our vision was to operate a major academic medical center efficiently, with focus on improving the stature of physician care. We took it step by step, and with confidence in our success. But we never imagined the kind of growth we have seen."

That growth had its start in 1984, when the University of Maryland Medical Center (UMMC) became privatized as the flagship hospital of the new system. It was by no means the first U.S. state hospital to do so. However, it may well be the one with the most unique approach. Unlike some attempts at privatization in which the relationship between the hospital and school of medicine deteriorated, the synergy present between the two entities in Maryland powered their new relationship.

"It never would have happened without the strong bond that existed between the hospital and the medical school," Robert A. Chrencik, UMMS president and chief executive officer, reports. "Our mutual ability to leverage respective assets is what has defined us, and has given us a great deal of horsepower."

At the time, UMMC was one of many hospitals across the country struggling to survive. A university board of regents, adept at governing research and education, faltered when it came to managing the business of running a hospital. Owned by the state but operated through the university, the hospital was burdened by chronic operating deficits, competitive challenges, benefit structure problems, and an often cumbersome pyramid procurement process. Pressure to build new facilities, add new technology and enhance programs translated to a revolving door approach to the need for state subsidies.

Encouraged by the reciprocal strength generated between UMMC and the University of Maryland School of Medicine (SOM), vision for a privatized hospital grew, and was realized when the state gave its approval, paving the way for the birth of UMMS.

E. Albert Reece, MD, PhD, MBA, the University of Maryland vice dean for medical affairs and medical school dean, observes that credit goes to the framers who wrote the bylaws that became the structure for UMMS. "Although it was written 25 years ago, it is exactly what I would like to see if it were being written today," Reece says. "I'm not sure if they were clairvoyant or brilliant or both. The synergy and symbiotic relationship between the school and system is a perfect match that inextricably binds us together."

Chrencik explains that the state's investment in research activities at the SOM has provided muscle for important UMMS acquisitions, and has helped enable physical growth as well. The school ranks seventh of 76 public medical schools in total research funding, and 19th among all 130 medical schools. Since 1994, grants and contracts at the SOM have increased from \$86 million to \$377 mil-

\$2.5 billion. That revenue base is diversified, with a major urban medical center added to urban, suburban and rural hospitals plus three facilities directed to specialized treatment.

The continuing relationship between UMMS and the State of Maryland is a mutually supportive one. Although UMMS is a privately owned 501-C (3) corporation, UMMC does receive capital support from the state as the acknowledged state medical center. Between medical school education and residency training, UMMS and the SOM supply more than half of Maryland's doctors and provide care to a fifth of Maryland's residents. In turn, the hospital's board is appointed by the governor and includes two Maryland legislators as mandated members of the board, along with three university regents, the chancellor, the University of Maryland Baltimore president, and the dean of the medical school.

Early Progress

Among the initial priorities for the fledgling medical system as it began to show a healthy bottom line were major revitalizations at UMMC. The system's flagship hospital would, in a relatively few years, become a bridge to health care in communities throughout the state, serving as a resource for medical talents, specialized care, and expansion of programs in member hospitals. First, however, came needs on the home front. Along with development of a strategic plan, and initiation of enhanced clinical programs at the hospital, renovation and expansion of UMMC facilities were soon underway. One of the first achievements was the building of the R Adams Cowley Shock Trauma Center. Originally created by an Act of Congress, the center is a 200,000 square-foot facility dedicated entirely to injury and critical illness. John W. Ashworth III, senior vice president of network development and associate dean at the SOM, was one of the architects of the center.

"The Shock Trauma Center today treats more brain injuries a year than any other facility in the country," he says. "Its importance to Maryland residents can't be overstated."

In the years following, the Gudelsky Building and Harry and Jeanette Weinberg Building were added. A statewide cancer initiative resulted in the Marlene and Stewart Greene-

baum Cancer Center gaining national recognition as one of only 64 centers accredited as a "designated center" by the National Cancer Institute (NCI). These achievements paved the way for expansion of the system to its current nine member hospitals—and in the process, created an extensive link that joins communities throughout Maryland in sharing the research and patient care benefits of the state's academically centered hospital and the SOM.

lion, positioning the SOM as a strong partner with UMMS as a statewide health care enterprise.

The success of UMMS affiliating with hospitals throughout the state is based on its ability to access low-cost capital, as well as partner with the SOM to attract physicians interested in building stronger clinical programs. With more than 90,000 annual admissions, UMMS revenues for 2009 were over \$2 billion, and soon will reach

"The synergy and symbiotic relationship between the school and system is a perfect match that inextricably binds us together."

R Adams Cowley SHOCK TRAUMA CENTER



Senior vice presidents Jerry Wollman and John W. Ashworth III

"The Shock Trauma Center today treats more brain injuries a year than any other facility in the country. Its importance to Maryland residents can't be overstated."

"Our early milestones are intrinsically tied to the school," Chrencik says. "As building expansion accelerated, and as clinical programs including transplantation, cardiac and cancer care grew, the intersection between UMMC and the school, which was undergoing its own transformation, contributed to the mutual success of both."

By the end of the 1990s, community hospitals were pressured by the rise of managed-care contracts. With the growth of HMOs, many began to question whether they could survive on their own. At the same time, UMMS was positioned to expand its base, thanks to its strong bond rating and partnership with the SOM. The system was ready to deliver on the needs of hospitals seeking capital, physicians and improved clinical programs. According to Chrencik, an important decision was made then about the future direction of growth.

"We were determined to focus on Maryland," he says. "We have since become known internationally, but in directing our sights on expansion, we remain committed to our own state."

In 2009, UMMS operated more than 1,900 licensed beds with 90,450 admissions, more than 250,000 emergency visits and 400,000 outpatient visits. Member hospitals were served by 3,000 physicians including over 1,200 faculty members at the SOM. Today, member hospitals, in addition to UMMC, include Baltimore Washington Medical Center, Chester River Hospital Center, James Lawrence Kernan Hospital, Maryland General Hospital, Mt. Washington Pediatric Hospital, the Shore Health System's two hospitals—Memorial Hospital of Easton and Dorchester General—and University Specialty Hospital. Upper Chesapeake Medical Center and Harford Memorial Hospital—members of the Upper Chesapeake Health System—are new affiliates.

Beginning with the fact that the SOM and hospital have educated and trained a majority of the doctors in Maryland, it isn't difficult to see the advantages to hospitals in partnering with the network. Jerry Wollman, senior vice president, corporate operations, says the link with Baltimore area hospitals and those as far as Maryland's eastern shore is based on the needs of a specific institution.

"If a hospital wants to develop a cancer program, there is the opportunity to engage experts at an NCI-designated center in recruiting physician talent," he says. "As another example, we recently expanded a radiation oncology program at Baltimore Washington Medical Center by having doctors there join the SOM faculty of the nationally renowned program at UMMC. In addition, our member hospitals can participate in important research through access to clinical trials by sending patients to UMMC, and in some cases, even through trials performed in their local communities."

Recruitment of physicians and staff as well as providing resources, such as new clinical space, constitute still another benefit to hospital partners, Wollman reports. Certainly among the most important assets is UMMS's ability to access capital. Because of its strong financial position and bond rating, UMMS has the ability to help hospitals that can't borrow for expansion because of limited debt capacity.



Roy Smoot Jr., '80, chief medical officer at Maryland General Hospital

Maryland General Hospital is committed to the needs of our patients and appreciate the ability to build a needed facility, as well as having the seamless ability to transfer patients to UMMC when necessary.

Roy Smoot Jr., '80, chief medical officer at Maryland General Hospital, a hospital now in the final phase of completion of a new \$68 million building, reports that access to capital has been a major benefit to patients at the west Baltimore hospital.

"Ours is an urban community hospital with a patient population challenged by access and health care disparities" he says. "Because we are committed to the needs of our patients, we appreciate the ability to build a needed facility, as well as having the seamless ability to transfer patients to UMMC when necessary."

The dean recently communicated with the CEOs of all member hospitals, putting them in touch with his vice dean of clinical affairs who will be the direct point person to respond to any clinical needs, and find appropriate people to provide the service in local communities or at UMMC.

"We must grow beyond numbers," Reece says. "It's important that we move toward a greater integration of services, rather than becoming a system of nine stand-alone hospitals."

No enterprise reaches its 25-year mark unchallenged, however, and UMMS is no exception. Rapoport, the systems' first CEO, served for 20 years before retiring. The following five years, prior to the appointment of Chrencik as CEO, experienced some turbulence around maintaining the alignment between the medical center and the SOM. In the past, individual and mutual goals of both entities were regarded. When that sense of collaboration eroded; so did the momentum of the system itself.

It is to the credit of those with a stake in the success of the alliance between UMMS and the school that the problems were resolved before any permanent rupture in the relationship occurred. In December 2008, Chrencik, a trusted financial leader at the

system since its beginning, was appointed permanent president and chief executive officer after serving in an interim capacity since August.

"We have built strength through geographic and clinical diversification, and financial and operational strength. Whatever happens nationally, these are the essentials community hospitals will continue to seek."

The UMMS recent affiliation with the Upper Chesapeake Health System (UCH) is expected to add considerable strength to the Harford County economy through expanded medical services, jobs and construction. That system, which includes Upper Chesapeake Medical Center

in Bel Air, and Harford Memorial Hospital in Havre de Grace, has experienced sizeable growth, and soon will add to its patient population due to the Base Realignment and Closure Commission's transfer of thousands of jobs, many of them to Harford County. The partnership indeed merits celebration during UMMS' 25th year, as it is one more example of the culmination of success that can evolve from collaborative enterprise.

As for the future, while health care on the whole positions itself for change, UMMS appears confident in being able to weather whatever challenges loom ahead. Commenting on uncertainties on the horizon, Chrencik says, "We have built strength through geographic and clinical diversification, and financial and operational strength. Whatever happens nationally, these are the essentials community hospitals will continue to seek."

Reece agrees, adding that current leaders at UMMS have inherited something rare. "We owe a great deal to our predecessors who conceived the system and nourished it through its infancy," he says. "We have been given something that we can move to the next level of excellence and sustainability, based on our collective vision, tenacity, and opportunities for mutual success." 🏛️



The original Baltimore Infirmary located on the southwest corner of Lombard and Greene streets.

Private for only 25 Years?

The irony of this wonderful success story of the University of Maryland Medical System is that the original hospital was actually a private enterprise for its first 97 years of existence.

In 1823, Maryland became the first medical school in the country to construct its own infirmary for clinical instruction. The effort was spearheaded by the dean, Granville Pattison, who convinced his faculty colleagues to underwrite the cost of construction and furnishings totaling \$16,000. The original name Baltimore Infirmary was changed to University Hospital around the turn of the 20th century. It came under state ownership in 1920 when the independent University of Maryland merged with the State College of Agriculture to become the University of Maryland Baltimore and College Park, a public university. The current title University of Maryland Medical System has been used since the 1984 privatization.



The Upper Chesapeake Health System in Harford County is the most recent addition to the University of Maryland Medical System.

Honor Roll 2009

Medical Alumni Association Honor Roll 2009

The Medical Alumni Association of the University of Maryland, Inc., publishes its honor roll in the fall of each year in the fall Bulletin magazine. This list recognizes gifts made to the MAA between July 1, 2008 and June 30, 2009. The MAA and School of Medicine are grateful for the generous support of our alumni and friends.

The John Beale Davidge Alliance

The John Beale Davidge Alliance is a partnership of alumni and friends who support the University of Maryland School of Medicine. The alliance is a partnership of alumni and friends who support the University of Maryland School of Medicine. The alliance is a partnership of alumni and friends who support the University of Maryland School of Medicine.

The 1807 Circle

The 1807 Circle is the name given to the group of alumni and friends who support the University of Maryland School of Medicine. The circle is a partnership of alumni and friends who support the University of Maryland School of Medicine.

1895
Frank C. Bressler

1897
Isaac Dickson

1904
A. Lee Ellis

1921
Moses Paulson

1926
Max Trubek

1930
Maxwell Hurston

1931
Harry S. Shelley

1932
Mortimer D. Abrashkin

Herbert Berger
John C. Dumler

1933
Sam Beanstock
Mark Thumim

1934
M. Paul Mains

1935
Milton I. Robinson
John M. Shaul
Benjamin M. Stein

1937
David A. Barker
James & Carolyn McGuire
Frenkil

Lawrence Perlman
Albert Shapiro

1938
John Z. & Akiko K. Bowers
Celeste L. Woodward
Theodore E. Woodward

1940
Ross Z. & Grace S. Pierpont

1941
Christian F. Richter
Raymond Kief Thompson

1942
Louis O.J. Mangiello
Mary L. Scholl

1943M
Irving J. Taylor

1943D
John W. Recht
Arthur M. Rinehart
Wm. B. Rogers

1944
John M. Bloxom III

1945
David H. Barker
Benjamin Berdann
Oscar B. Camp
Mary Dorcas Clark
John M. Dennis
Joseph B. Ganey

1946
Allan H. Macht
David & Norma Sills Jr.

1947
James M. & Alma Trench

1948
Clark Whitehorn

1949
Robert R. Rosen

1950
Grace Hofsteter

1951
Kathleen R. McGrady
Robert J. Venrose

1952
Lee W. Elgin Jr.
Paul H. Gislason
Robert A. Grubb
Morton M. Krieger

1953
Robert Berkow
Sylvan & May Frieman
John W. Heisse
George C. Peck
Israel H. Weiner

1954
Thomas E. Hunt Jr.

1955
Vernon M. Gelhaus
Paul C. Hudson
Morton D. Kramer
Frank R. Nataro

1956
Theodore R. Carski
Joseph S. McLaughlin
Marvin S. Platt

1957
Selina Balco Baumgardner
George A. Lentz
Frederick W. Plugge IV
Walter M. Shaw
Leonard M. Zullo

1958
John T. Alexander
George R. Baumgardner
Frank P. Greene
William J. Marshall

1959
Jack C. & Cynthia Lewis
Morton M. Mower
Lawrence D. Pinkner
Hans R. Wilhelmsen

1960
Leonard P. Berger
Wilson A. Heefner
Ronald E. Keyser
Selvin & Sylvia Passen
Morton I. Rapoport

Bernice Sigman
Nathan Stofberg

1961
Neil Arbegast
Jay S. Goodman
David E. Litrenta

1962
W. Haddox Sothoron

1963
Leland M. Garrison
Kosta Stojanovich

1965
Edward S. Hoffman
Donald Cornelius Roane

1966
Arnold S. Blaustein
Elizabeth C. Hosick
Franklin L. Johnson
Lloyd I. Kramer
Carolyn J. Pass
Richard M. Susel
James W. Spence

1968
Bert F. Morton
Barry J. Schlossberg

1969
Barry H. & Marsha Lee
Friedman
Arthur V. Milholland & Dr.
Lucille A. Mostello
Kristin Stueber

1970
David B. Posner
Louis A. Shpritz
Stanley S. Tseng

1971
T. Noble Jarrell III

1972
William G. Armiger

1973
Steven J. & Dr. Enid K. Gross
Ronald J. Taylor

1974
Edward L. Perl

1975
Richard L. & Kathie Taylor
Stephen H. & Patricia Pollock

1976
Geoffrey B. Liss
Melvin Sharoky
Benjamin K. Yorkoff

1977
Dahlia R. Hirsch
Barry A. Wohl

1978
Morris Funk
Elizabeth M. Kingsley
Ruth A. Robin
Ellen L. & Dr. Bruce Taylor
Stephen A. Valenti

1979
Stephen R. Izzi
A. F. Woodward Jr.
Erik B. & Joyce Young

1980
Mehtap Atagun Aygun

1982
Brian K. Cooley
George E. Groleau

1986
Seth D. Rosen

1989
John T. Alexander II

1990
Martin I. Passen

1999
Maurice N. Reid

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Jane S. Satterfield, '64
George R. Hepburn, '74

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S. Robinson
Drs. James B. Kaper & Carol
O. Tacket
Dr. John A. Kastor
Drs. M. Jane Matjasko &
Shao-Huang Chiu
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Ms. Anne Tyler
Dr. Richard D. Richards
Dr. Thomas M. Scalca
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Mr. Alan H. & Mrs. Cynthia
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Mr. Robert J. Franks
Mr. Bobby & Mrs. Sherrie R.
Frankel
Mr. Fred & Mrs. Roben I.
Gerson
Ms. Dorothy Getz
Mr. Allan R. Gilbert
Mrs. Evelyn Grollman Glick
The Gluck Family
The Hon. Louis L. & Mrs.
Goldstein
Ms. Louisa H. Goldstein
Greater Grace World
Outreach
Mrs. Marlene & Mr. Stewart J.
Greenebaum
Mr. Benjamin H. Griswold III
Bessie & Simon Grollman

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Willard & Lillian Hackerman
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Heinz Family Foundation
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Hoechst Marion Roussel Inc.
Horizon Foundation
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Mrs. Kim W. Hughes
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Foundation
Inspire Pharmaceuticals Inc.
Jack Taylor Family Foundation
Inc.
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Leukemia Society Of America
Dr. Benjamin Levine
Mr. David & Mrs. Ruth Levine
Roger C. & Brenda Lipitz
MBNA America Bank N.A.
Maryland School For The
Blind
Frank M. Masters
Dr. Theodore R. Matheny
Mr. Hugh P. McCormick Jr.
Mr. George W. & Mrs. Carol
M. McGowan
M. Mark Mendel, Esq.
Merck Science Initiative
Merritt Properties LLC
Mrs. Michele H. Mittelman
Monsanto Company
Mr. & Mrs. Terry Montesi
Mr. Samuel W. Moore Jr.
Mr. Sylvan J. Naron
Mr. & Mrs. S. Naylor
Dr. A. Robert Neurath
Newman Foundation of The
Ayco Charitable Fund
Novartis/Ciba Geigy
Corporation
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Mrs. Helen Golden Paulson

Mr. & Mrs. Abe & Irene
Pollin
Ms. Kathleen H. Pritchard
Dr. Carol G. Pryor
Rafael Nieves Heart Fund for
Children
Research To Prevent
Blindness Inc.
Mr. Richard & Mrs. Debra
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Mrs. Doris S. Rief
Mrs. Elizabeth R. Robinson
Ronald McDonald House
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Josephine Rosewall
Mrs. Corinne C. Schwartz
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Mrs. Harry S. Shelley
SigmaTau Pharmaceuticals Inc.
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Smith
Smith & Nephew Inc.
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Corporation
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Waggle.COM
Mr. Daniel E. Wagner
Harry & Jeanette Weinberg
Foundation
Mr. Leonard Weinglass
Mrs. Alvin S. Wolpoff
Ms. Margaret S. Wu
Wyeth Ayerst Pharmaceuticals

The Silver Circle

The Silver Circle is a group
of individuals who have
been inducted into the John
Beale Dawidge Alliance and
are eligible for the Silver
Circle award. The
Silver Circle award is
presented annually.

1932
Abraham N. & Gertrude
Kaplan
1934
William L. Howard
1936
Milton H. Stappen

1938
Daniel J. Abramson
Joseph M. George Jr.
Florence Gottdiener
1939
Elizabeth B. Cannon-Hall
1941
Gene A. Croce
1943D
W.N. Corpening
Cliff Ratliff Jr.
1943M
Harry Cohen
Jose M. Torres-Gomez
Robert E. Wise
1945
Joseph W. Baggett
William A. Holbrook
Leonard T. Kurland
Daniel B. Lemen
Henry F. Maguire
John J. Tansey
1946
John A. Mitchell
1948
John R. Hankins
1949
Nathan Schnaper
1952
Donald A. Wolfel
1955
Foster L. Bullard
Joseph W. Cavallaro
Henry A. Diederichs
1956
Webb S. Hersperger
H. Coleman Kramer
Virginia T. Sherr
1957
Paul K. Hanashiro
Landon Clarke Stout
1958
Meredith S. Hale
Charles E. Parker
1959
John W. Coursey
William J.R. Dunseath
Ramon F. Roig Jr.
Howard J. Rubenstein
1960
Paul D. Meyer
Damon F. Mills
Clinton L. Rogers

1961
Carl F. Berner
John N. Browell
John P. Light
1963
Robert M. Beazley
Karl Stecher Jr.
1964
Salvatore R. & Edith M.
Donohue
Donald T. Lewers
Richard G. Shugarman
1967
Gerard D. & Shirley J.
Dobrzycki
John Wm. Garais
1968
R.S. Buddington
Anthony L. Merlis
Joel Wm. Renbaum
1969
Robert A. Helsel
1970
Henry A. Briele
Michael A. Grasso
Kenneth M. Hoffman
Thomas F. Kline
John H. Poehlman
Charles I. Weiner
1972
Robert J. Bauer
Nelson H. Hendler
Richard B. Kline
John A. Niziol
1973
Jeffrey C. Blum
Nelson H. Goldberg
Louis E. Harman III
Mark P. Miller
1974
Michael H. Hotchkiss
Luis A. Queral
David L. Zisow
1975
Anonymous
Charles E. Andrews
Robert J. Beach
Noel M. Chiantella
Karl W. Diehn
Kenneth V. Iserson
Thom E. Lobe
Kathryn A. Peroutka
L. Edward Perraut Jr.
Jeffrey L. Quartner
Sandra D. L. Quartner

Gregory B. Richardson
Gary B. Ruppert

1976

D. Stewart Ginsberg
Harry Clarke Knipp

1977

Robert T. Fisher
Clyde A. Strang

1980

Victoria W. Smoot
Roy T. Smoot Jr.

1981

Andrew M. Malinow

1983

George M. Boyer
Monica A. Buescher
Protagoras N. Cutchis

1984

Roy E. Bands Jr.
Theodore Y. Kim
Lurette S. Semmes

1985

Alan R. Malouf

1986

Dennis Kurgansky
Donna Lynn Parker
Nevins W. Todd III

1987

D.V. Woytowicz

Faculty

Dr. Meredith Bond
Dr. Angela Brodie
Dr. William T. Carpenter
Dr. William Henrich
Dr. Colin Mackenzie
Dr. Carl Mansfield
Dr. Vincent D. Pellegrini
Dr. Mary M. Rodgers
Dr. John A. & Susan W.
Talbot

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Mrs. Margaret J. Rhian
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Neurology
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Anastasia Manis
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Joyce Norton McCormick
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Neuberth
Ms. Martha Parsons
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Mr. James & Mrs. Diane
Perrine
Dr. Milton Rock
Mr. Leroy & Mrs. Donna
Shapiro
Mrs. Diana Sue Singer
Ms. Jane Takeuchi Udelson
Dr. Lucy R. Waletzky
Jane Zee

The Elm Society

The Elm Society is composed
of many generous friends
of the University of Maryland.

1979

Charles Getz

1987

Julius E. Gross

1910

Walter M. Winters

1916

Frank C. Marino

1917

Charles R. Thomas

1915

Eva F. Dodge
Joseph Nataro
W.A. Sinton

1917

Abraham H. Finkelstein
Charles E. Gill

1928

Aaron I. Grollman

Aaron H. Meister
Morris H. Saffron

1931

Abraham Jacobs
William Yudkoff

1931

William M. Seabold

1937

Francis N. Taylor

1935

Jeannette R. Heghinian
Irving Klompus
Howard B. Mays
Harry M. Robinson Jr.

1936

Leo M. Curtis
Jaye Grollman
Howard T. Knobloch
Richard H. Pembroke Jr.
Samuel Steinberg

1937

Jack A. Kapland

1938

Aaron Feder
Bernard J. Sabatino
Bernard O. Thomas Jr.
H. Leonard Warres

1939

Bernard S. Kleiman

1940

Benjamin H. Inloes Jr.
William S. M. Ling
A. Frank Thompson Jr.
William I. Wolff

1941

Julius Gelber
Jacob B. Mandel
Benjamin Pasamanick

1942

James N. McCosh
Louis H. Shuman

194310

Ruth W. Baldwin
Eli Galitz
Jack C. Morgan

1944

Patricia Dodd
W. Carl Ebeling III & Claire
Krantz

1945

Eugene H. Conner
William H. Frank

1948

Walter J. Benavent
Sidney & Bernice R. Clyman
Joseph D'Antonio
Guy K. Driggs
Samuel D. Gaby
Erwin R. Jennings
Herbert J. & Virginia Levickas
James A. Roberts

1947

George W. Fisher
A.R. Mansberger

1948

Leonard H. Golombek
Raymond H. Kaufman
Robert L. Rudolph
Kyle Y. Swisher

1949

Robert A. Abraham
Margaret Lee Sherrard
Meredith P. Smith
Edward W. Stevenson
John F. Strahan

1950

Joseph B. Bronushas
Leonard G. Hamberry
Stanley W. Henson Jr.
Virginia Huffer
Milton R. Righetti
O. Ralph Roth
Henry H. Startzman Jr.

1951

Frederick J. Hatem
Charles W. McGrady
Henry D. Perry
John T. Scully

1952

Richard E. Ahlquist Jr.
Jonas R. Rapoport
David R. Taxdal
Howard N. Weeks

1953

Richard M. Baldwin
Thomas J. Burkart
John W. Metcalf
Joel S. Webster

1954

Samuel J. Abrams
Stuart M. Brown
Robert B. Goldstein
John F. Hartman
Morris Rainess
J. Walter Smyth
Rufus Thames
Arthur V. Whittaker

Honor Roll 2009

The John Beale Davidson Alliance

1961

Neal C. Capel
Donald H. Dembo
Henry Booth Higman
Walter E. James
Richard F. Leighton
John P. McGowan
George L. Morningstar
Leonard J. Morse

1956

John E. Adams
Robert J. Byrne
Albert V. Kanner
Mathew H. M. Lee
John B. Littleton
Herbert M. Marton
Irvin P. Pollack
Marvin S. Platt
G. Edward Reahl Jr.
Charles A. Sanislow
W. A. Sinton Jr.

1957

Marvin S. Arons
Virginia Y. Blackledge
Charles M. Henderson
Peter P. Lynch
Nevins W. Todd Jr.

1958

Stuart H. Brager
Richard H. Keller
G.T. McInemey
Granger G. Sutton

1959

Milton B. Cole
William F. Falls Jr.
August D. King Jr.
Donald R. Lewis
Arthur L. Poffenbarger
Robert J. Thomas

1960

Aristides C. Alevizatos
Straty H. Economon
I. William Grossman
Charles Earl Hill
Lawrence F. Honick
Elijah Saunders
Emanuel H. Silverstein
Lois A. Young

1961

James R. Appleton
George E. Bandy
James J. Cerda
John N. Diaconis
Leonard W. Glass
Ronald L. & Shirley D.
Gutberlet

Gerald C. Kempthorne
Roger Mehl
Paul A. Reeder Jr.
David L. Rosen

1962

Raymond D. Bahr
Bruce D. Broughton
Herbert Gaither
Bernard S. Karpers
Theodore C. Patterson
John A. Rupke

1963

Alice B. Heisler
Merrill M. Knopf
Janet E. Mules
Mitchell C. Sollod
Chris P. Tountas
Edward C. Werner

1964

Richard M. Protzel

1965

Larry C. Chong
John C. Dumler Jr.
F. R. Lewis Jr.
Phillip P. Toskes

1966

James E. Arnold
Jay Martin Barrash
Philip P. Brous
William D. Ertag
Stuart L. Fine
Richard L. Flax
Dwight N. Fortier
George E. Gallahorn
Alfred A. Serritella

1967

Francis D. Drake
Henry Feuer
Robert O. France
Stuart S. Lessans
Fred R. Nelson
Joseph C. Orlando
John R. Rowell

1968

Sheldon B. Bearman
William N. Goldstein
James G. Kane
Charles J. Lancelotta
Charles S. Samorodin
Burton S. Schonfeld
Howard Semins
Eugene Willis Jr.

1969

Mark M. Applefeld
Emile A. Bendit
George R. Brown
Paul J. Connors

Graham Gilmer III
Arnold Herskovic
Edwin E. Mohler
O. Lee Mullis
Alan J. Segal

1970

Arthur O. Anderson
Francis A. Bartek
John P. Caulfield
Leo A. Courtney III
Stephen B. Greenberg
Louis S. Halikman
Dennis J. Hurwitz
James S. Murphy
Edward J. Probst
Walker L. Robinson
Norman W. Taylor

1971

Charles F. Hobelmann Jr.
Jack S. Lissauer
R. Henry Richards

1972

Robert J. Bauer
Mark J. LeVine
Richard H. Sherman
Peter D. Vash
Dean L. Vassar
Jerald P. Waldman
Brian J. Winter
Celeste L. Woodward

1973

Michael J. Dodd
Raymond D. Drapkin
G. Reed Failing Jr.
David J. Greifinger
Denis Wm. MacDonald
Bernard G. Milton
Ira M. Stone
T. S. Templeton II
Harold Tucker
Roberta S. Tucker
Charles B. Watson

1974

Gary D. Boston
James Jay McMillen
Denis A. Niner
W.R. Weisburger

1975

Bruce E. Beacham
L. Thomas Divilio
Gary F. Harne
Darvin Hege
Charles F. Hoesch
Donald S. Horner
Thomas F. Krajewski
Charles E. Manner
Scott M. McCloskey
Frank H. Morris

Nicolette Orlando-Morris
Harvey B. Pats
Robert E. Roby
Michael B. Stewart

1976

Christopher Feifarek
Ellen B. Feifarek
Jose R. Fuentes
Bradford A. Kleinman
James E. Mark
Lee S. Simon

1977

Anonymous
Elwood A. Cobey
Frederic T. Farra
Alan S. Gertler
Douglas N. Stein
Katherine C. White
Richard J. Zangara
Stuart A. Zipper

1978

Philip A. Ades
Ira J. Kalis Cohen
Donald T. & Carolyn F.
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1979

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G. S. Malouf Jr.
Linda D. Oaks
Peter E. Rork
Perri Laverson Wittgrove
H. Russell Wright Jr.

1980

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Jane L. Chen
Craig A. Dickman
Milford M. Foxwell Jr.
Richard M. Galitz
Jeffrey A. Kleiman
Susan L. Laessig
Timothy P. McLaughlin
William J. Oktavec
Keith D. Osborn
Roger J. Robertson
Alan J. Sacks

1981

Alice Magner Condro
Lawrence A. Galitz
Karen R. Kingry
Mark C. Lakshmanan
Brian & Dianne Wamsley

1982

Brian K. Cooley
John M. DiGrazia
Ralph T. Salvagno

1983

Harry A. Brandt

Therapist Deaths Database

Neil B. Friedman
George Thomas Grace
Harry A. Oken

1984

Brad D. Lerner
Dale R. Meyer
Carole B. Miller
Paul R. Ringelman

1985

Joanna D. Brandt
Frederick M. Gessner
Sharon M. Henry
Jeffrey Jones
David A. O'Keeffe

1986

Ira Louis Fedder
Barbara Burch Fleming
Jeffrey Robert McLaughlin

1987

Kathleen Devine Hearne
Stephen L. Houff
G. Michael Maresca
James P. Nataro

1989

David A. Burns
Wing C. Chau
David A. Gnegy
Stephen F. Hatem
Steven E. Hearne
Babak J. Jamasbi
Joy L. Meyer

1990

Jennifer P. Corder

1996

Maureen G. Burdett
Michele Cooper
Robert F. Corder

1997

Rachel Kramer
Andrew Ward Morton

1998

Otha Myles

1999

Charlotte M. Jones-Burton

Physical Therapy Graduates

Howard E. Neels, '63
Leslie B. Glickman, '64
Richard A. Lopez, '78
Jon C. Waxham, '96
Thomas W. Yates, '96

Faculty

Dr. Claudia Baquet
Dr. C. William Balke

Dr. Christopher T. Bever Jr. &
Patricia A. Thomas
Dr. Mordecai P. Blaustein
Dr. Nathan Carliner
Dr. Thomas C. Chalmers
Dr. Kevin S. Ferentz
Drs. Paul S. Fishman &
Elizabeth Barry
Dr. Bartley P. Griffith
Dr. Eve J. Higginbotham &
Dr. Frank C. Williams
Dr. Kenneth P. Johnson
Dr. Gerald S. Johnston
Dr. Christian R. Klimt
Dr. Edward J. Kowalewski
Dr. Allan Krumholz
Drs. Vinod & Bina Lakhanpal
Dr. Herbert L. Muncie Jr.
Dr. David A. Nagey
Dr. Richard Pierson
Dr. Krishna C.V.G. Rao
Dr. William Regine
Dr. Rafael M. Rodriguez
Dr. Philip A. Templeton
Dr. Gunvant Thaker
Dr. Benjamin F. Trump
Dr. & Mrs. Umberto
VillaSanta
Dr. Debra S. Wertheimer
Dr. Nancy O. Whitley
Dr. John F. Wilber

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Bankenbush
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Lynn McCready
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Chrencik
Mr. & Mrs. Edward A. Cockey
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Copeland
Dr. Frederick Coulston
Ms. Dawn Crafton
Mr. Ronald Davies

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Leo G. & Joan Dominique
Eugene Eidenberg
Eli Lilly & Company
Ms. Gretta Estey
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Frank C. Marino Foundation
The Franklin Paulson
Revocable Trust
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Mr. Bennett Friedman
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Dr. James Nowell Ganey
Mr. Ronald E. Geesey
Myron D. Gerber
Mr. Nicholas Giannaris
Mrs. Freda Gill
The Gilmore Family
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Coda Grube
Mrs. Bertha Gudelsky
Mr. Carlton K. Gutschick
Mr. Gregory F. & Ina Handlir
Mr. Neil & Mrs. Janice
Harrison
Mr. Richard Harvey
Mr. Anthony T. Hawkins
Mr. Robert T. Heltzel
Mrs. Jean Hepner
Mrs. Zoh M. Hieronimus
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Dr. Donald J. Hobart
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Mrs. Calvert Jones Holloway
Dr. Frederic Huppe-Gourgues
Mr. Woodland Hurtt
Ischemia Technologies
Ms. Elise M. Janthey
H. McKee Jarboe Fund
Mr. William B. Johnson
Johnson & Johnson
Mr. James Summer Jones
Mr. Irving B. Kahn
Dr. Harold & Mrs. Joan
Kaplan
Dr. Richard I. & Mrs. Linda
B. Katz
Dr. Florence P. Kendall
Mr. Ronald E. King Sr.
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Ms. Ruth M. Latimer
Mr. Gerald G. & Mrs. Lilo J.
Leeds
Audrey Levine
Mr. Thomas M. Li
Living Erickson Foundation
Dr. Dan Longo & Dr. Nancy
S. Longo

David & Cynthia MacLean
Mr. Patrick Madden & Mrs.
Megan M. Arthur
Manpower Demo Research
Corp.
Mr. Stanley J. Marcuss
Mr. & Mrs. Leonard Mathias
Mr. & Mrs. Philip Matz
Mr. Charles W. McGrady
Dr. James E. & Mrs. Susan O.
McNamee
Mr. Lee Melsby
Mr. Jack W. Merrill
Mrs. Jeanne Michel
Mr. & Mrs. Milton H. Miller
Sr.
Mr. Dennis Narango
Mr. Michael & Pamela Noble
Katherine O'Neal-Brady
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Jennifer I. Chiu
Ms. Shannon Parks
Mr. David Paulson
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Inc.
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Plainsboro Marketing Group
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Mr. Hallie P. Rice
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The Safra Family
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Dr. Sylvan M. Shane
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Jimmie Swartz Foundation
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Dr. Rodrigo Toro
Towson Rehabilitation
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Trustees of the Endowment
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Medicine Associates
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Honor Roll 2009

Honor Roll

The following made gifts to the Medical Alumni Association between July 1, 2008 and June 30, 2009.

1934

Number of Donors: 1
Participation: 33.33%
Total Contributions: \$100.00
Average Gift: \$100.00

Manuel Levin

1935

Number of Donors: 1
Participation: 25%
Total Contributions: \$250.00
Average Gift: \$250.00

Samuel E. Einhorn

1936

Number of Donors: 3
Participation: 50%
Total Contributions: \$11,050.00
Average Gift: \$3,683.33

Howard T. Knobloch
Morris J. Nicholson
Milton H. Stapen

1937

Number of Donors: 2
Participation: 40%
Total Contributions: \$12,625.00
Average Gift: \$6,312.50

James Frenkil
Lawrence Perlman

1938

Number of Donors: 3
Participation: 50%
Total Contributions: \$1,700.00
Average Gift: \$566.67

Joseph M. George Jr.
W. Lehman Guyton Jr.
H. Leonard Warren

1939

Number of Donors: 2
Participation: 33.33%
Total Contributions: \$1,050.00
Average Gift: \$525.00

Elizabeth B. Cannon-Hall
Oscar Hartman

1940

Number of Donors: 2
Participation: 20%
Total Contributions: \$400.00
Average Gift: \$200.00

Irving V. Glick
Leonard Posner

1941

Number of Donors: 4
Participation: 44.44%
Total Contributions: \$375.00
Average Gift: \$93.75

Aurora F. Alberti Gordon
Franklin E. Leslie
Raymond N. Malouf
Pearl Huffman Scholz

1942

Number of Donors: 1
Participation: 14.29%
Total Contributions: \$500.00
Average Gift: \$500.00

Louis H. Shuman

1943D

Number of Donors: 7
Participation: 36.84%
Total Contributions: \$2,225.00
Average Gift: \$317.86

Frederick B. Brandt
Albert Grant
J. Roy Guyther
William M. Harris

Luis M. Isales
Elizabeth Acton Karns
Alfred Nelson

1943M

Number of Donors: 5
Participation: 26.32%
Total Contributions: \$2,485.00
Average Gift: \$497.00

Ralph K. Brooks
Harry Cohen
Robert V. Minervini
Irving L. Samuels
Irving J. Taylor

1944

Number of Donors: 4
Participation: 21.05%
Total Contributions: \$1,400.00
Average Gift: \$350.00

Wilbur H. Foard
Michael R. Ramundo
E. Burl Randolph
Stanley N. Yaffe

1945

Number of Donors: 11
Participation: 44%
Total Contributions: \$5,830.00
Average Gift: \$530.00

Claude F. Bailey
Robert F. Byrne
Mary Dorcas Clark
John M. Dennis
Austin E. Givens
A. P. Kelly Jr.
Daniel B. Lemen
Henry F. Maguire
Allen J. O'Neill
Stanley R. Steinbach
O. P. Winslow Jr.

1946

Number of Donors: 17
Participation: 48.57%
Total Contributions: \$6,300.00
Average Gift: \$370.59

Robert E. Bauer
Alfred D. Bonifant
Louise P. Buckner
Sidney G. Clyman
Francis I. Codd
Guy K. Driggs
Joseph S. Fischer
John R. Gamble
Abraham A. Goetz
Charles W. Hawkins
Charles A. Hefner
Erwin R. Jennings
John C. Rawlins
James A. Roberts
Frank A. Shallenberger
Clinton W. Stallard Jr.
James A. Vaughn Jr.

1947

Number of Donors: 14
Participation: 38.89%
Total Contributions: \$3,440.50
Average Gift: \$245.75

Henry V. Chase
B. Stanley Cohen
Irvin H. Cohen
Robert C. Duvall Jr.
George W. Fisher
David K. Geldes
Benjamin M. Gold
Robert R. Hahn

Jim Houghton
Eugene P. Salvati
Joseph Shear
William H. Stenstrom
Sydney J. Venable
John P. White

1948

Number of Donors: 16
Participation: 43.24%
Total Contributions: \$4,945.00
Average Gift: \$309.06

A. Andrew Alecce
Elisabeth McCauley Brumback
Leonard H. Golombek
R. L. Hobart Jr.
R. H. Kaufman
Charles H. Lithgow
Albert M. Powell
Jimmie L. Rhyne
Benson C. Schwartz
John R. Shell
Benjamin K. Silverman
Phyllis P. Vaughn
H. G. Walters Jr.
James T. Welborn
Clark Whitehorn
John D. Wilson

1949

Number of Donors: 10
Participation: 33.33%
Total Contributions: \$13,300.65
Average Gift: \$1,330.07

Leonard Bachman
Harry W. Gray
George W. Knabe Jr.
Burton V. Lock
Max J. Miller
Howard F. Raskin
Nathan Schnaper
Meredith P. Smith
John A. Spittell Jr.
Edward W. Stevenson

1950

Number of Donors: 19
Participation: 51.35%
Total Contributions: \$5,340.00
Average Gift: \$281.05

William A. Andersen
H. H. Bleecker Jr.
L. Guy Chelton
Jerome J. Collier
Miriam S. Daly
Leonard L. Deitz
Stanley W. Henson Jr.
Frank T. Kasik Jr.
Hunter S. Neal
Evangeline M. Poling
Louis F. Reynaud
Virginia Gould Reynaud
Morton Smith
Henry H. Startzman Jr.
Elizabeth Stockly
Robert T. Thibadeau
Clifford E. Wilson
Harriet H. Wooten
William H. Yeager

1951

Number of Donors: 16
Participation: 41.03%
Total Contributions: 4,060.00
Average Gift: 253.75

Raymond R. Curanzy
Winston C. Dudley
Nancy B. Geiler
Benjamin D. Gordon
Dorris M. Harris
Frederick J. Hatem
David M. Kipnis
Harry L. Knipp
Henry D. Perry
Georgia Reynolds
Marvin J. Rombro
Armando Saavedra
John T. Scully
S. Norman Sherry
Edward M. Sipple
Homer L. Twigg Jr.

1952

Number of Donors: 27
Participation: 56.25%
Total Contributions: \$8,342.90
Average Gift: \$309.00

Charles B. Adams Jr.
Charles G. Adkins
Richard E. Ahlquist Jr.
George C. Alderman
Timothy D. Baker
Jack O. Carson
Lee W. Elgin Jr.
Paul H. Gislason
C. Edward Graybeal
William R. Greco
William L. Heimer
Laurel V. M. Hunter
Irvine Hyatt
Frank M. Kline
Irving Kramer
Morton M. Krieger
Charles H. Lightbody
William A. Mathews
William A. Pillsbury Jr.
Jonas R. Rapoport
Malcolm L. Robbins
Bella F. Schimmel
Richard A. Sindler
David R. Taxdal
Bryan P. Warren Jr.
Howard N. Weeks
Donald A. Wolfel

1953

Number of Donors: 21
Participation: 41.18%
Total Contributions: \$38,367.48
Average Gift: \$1,827.02

Robert Berkow
Joseph R. Bove
Thomas J. Burkart
Charles F. Carroll Jr.
Harry L. Eye
Sylvan Frieman
John W. Heisse
Thomas F. Herbert
William L. Holder
Werner E. Kaese
Capt. Robert Kingsbury

Classes with the Highest Gift Totals

1953	\$38,367
1959	\$37,835
1975	\$26,445
1980	\$19,795
1957	\$19,275

Benjamin Lee
Herbert Leighton
Rafael Longo
John W. Mercalt
James E. Night
Richard E. Schindler
Robert T. Singleton
Karl H. Weaver
Joel S. Webster
Israel H. Weiner

1954

Number of Donors: 28
Participation: 48.28%
Total Contributions: \$10,633.00
Average Gift: \$379.75

Arthur Butch
George Bauernschub
Anthony A. Bernardo
Edwin H. T. Besson
Herbert L. Blumenfeld
Stuart M. Brown
Efram A. Defendini
William F. Doran
Robert H. Ellis
Norman Forrest
Daniel H. Framm
Charles J. Hammer Jr.
Thomas E. Hunt Jr.
Richard A. Jones
Edward S. Kiohr Jr.
Hilbert M. Levine
Moses L. Natzinger
Gerald F. Nangle

Classes with the Highest Average Gift	
1937	\$6,312.50
1936	\$3,683.33
1953	\$1,827.02
1949	\$1,330.07
1959	\$1,304.66

Joseph J. Nova
Jean M. C. O'Connor
David H. Patten
Morris Rainess
Marshall A. Simpson
Jean B. Smith
James H. Teeter
Ira N. Tublin
George Wall

1955

Number of Donors: 26
Participation: 44.83%
Total Contributions: \$9,225.00
Average Gift: \$354.81

Otto C. Beyer
Roderick E. Charles
James M. Close

Roger W. Cole
Everard F. Cox
Donald H. Dembo
Henry A. Diederichs
William Dvorine
John A. Engers
Vernon M. Gelhaus
Gary S. Goshorn
Alvin W. Hecker
Henry Booth Higman
William Hollister Jr.
Paul C. Hudson
Walter E. James
Murray M. Kappelman
William P. Keeffe
C. Ronald Koons
Mort D. Kramer
Violet S. Kron
Richard F. Leighton
Leonard J. Morse

Paul C. Mueller
Joan Raskin
Donald W. Stewart

1950

Number of Donors: 53
Participation: 51.56%
Total Contributions: \$14,350.00
Average Gift: \$434.85

Robert T. Adkins
Jerald H. Bennion
Robert J. Byrne
Theodore R. Carski
Thomas H. Collawn
Ludwig J. Egseder Jr.
J. Henry Hawkins
Robert N. Headley
Webb S. Hersperger
Gilbert E. Hurwitz
Albert V. Kanner
C. Herschel King
H. Coleman Kramer
Scheldon Kress
Louis J. Lancaster
Joseph G. Lanza
Mathew H. M. Lee
Gerald N. Maggid
Joseph S. McLaughlin
John F. Nowell
Clark Lamont Osteon
Marvin S. Platt
Richard L. Plumb
Irvin P. Pollack
G. Edward Reahl Jr.
Harold I. Rodman

Robert C. Shacht
Katherine T. Sherr
W. A. Smurgle
Paul V. Slom
George A. Swell
John Z. Williams
Harry D. Wilson Jr.

1951

Number of Donors: 26
Participation: 39.39%
Total Contributions: \$19,275.00
Average Gift: \$741.35

Charles Allen
James K. Bouzoukis
Mary C. Burchell
Harvey R. Butt Jr.
Anthony J. Calciano
Joseph O. Dean Jr.
Mary Stang Firth
Sebastian J. Gallo
Nicholas Garcia
Allen S. Gerber
Paul K. Hanashiro
W. F. Holdeter
William F. Kennedy Jr.
David P. Largey
James P. Laster
George A. Lentz
Frank J. Macek
Paul A. Mullan
Herbert H. Nasdor
Charles R. Oppegard
Frederick W. Plugge IV
George W. Rever

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Michael S. Trupp
Ray A. Wilson
Leonard M. Zullo

1958

Number of Donors: 24
Participation: 42.11%
Total Contributions: \$10,825.00
Average Gift: \$451.04

James K. Aton
George R. Baumgardner
Stuart H. Brager
Gaylord Lee Clark
Robert E. Cranley Jr.
Bruce N. Curtis
Gilbert B. Cushner
Stanley N. Farb
Richard R. Flynn
Harvey L. Friedlander
Frank P. Greene
Meredith S. Hale
Albert F. Heck
William J. Hicken
Robert H. Johnson Jr.
Richard H. Keller
Howard S. Levin
Arthur Litofsky
William J. Marshall
Joseph A. Mead Jr.
Charles Silberstein
Jerome Tilles
James H. Tyer
William T. Ward

1959

Number of Donors: 29
Participation: 52.73%
Total Contributions: \$37,835.00
Average Gift: \$1,304.66

Gerson Asrael
William N. Cohen
John W. Coursey
Joseph L. Darr
Robert J. Dawson
James P. Durkan
W. F. Falls Jr.
Gilbert N. Feinberg
Charles B. Fletcher
Franklin A. Hanauer
James P. Jarboe
August D. King Jr.
Marvin M. Kirsh
Martin S. Kleiman
William Kraut
Richard C. Lang
Donald R. Lewis
Jose Oscar Morales
Nicholas A. Pace
Arthur L. Poffenbarger
William E. Rhea
Ramon F. Roig Jr.
Howard J. Rubenstein
C. Edmund Rybczynski
Daniel S. Sax
Arthur A. Serpick
Stanley N. Snyder
Beverly J. Stump
Hans R. Wilhelmson

1960

Number of Donors: 35
Participation: 54.69%
Total Contributions: \$12,450.00
Average Gift: \$355.71

Aristides C. Alevizatos
Lawrence F. Awalt
Leonard P. Berger
Arnold Brenner
Louis M. Damiano
Michael J. Fellner
Julio E. Figueroa
Alvin Glass
I. William Grossman
Wilson A. Heefner
C. Earl Hill
Ronald E. Keyser
Philip M. La Mastra
William E. Latimer
Richard C. Lavy
Herbert A. Martello
Damon F. Mills
John C. Morton
Allen R. Myers
Fortune Odendhal IV
Selvin Passen
Jerome M. Reed
Neil A. Robinson
Clinton L. Rogers
Jerome Ross
Robert P. Sarni
Elijah Saunders
Bernice Sigman
Emanuel H. Silverstein
George I. Smith Jr.
Morton E. Smith
Martha E. Stauffer
Nathan Stoffberg
Michael S. Tenner
Theodore Zanker

1961

Number of Donors: 26
Participation: 36.23%
Total Contributions: \$13,055.00
Average Gift: \$502.11

George E. Bandy
Carl F. Berner
Oscar H. L. Bing
Anthony R. Boccuto
Thomas G. Breslin
John N. Browell
Milton H. Buschman
Ronald L. Cain
W. R. Fleming Jr.
Carlos E. Girod
Jay S. Goodman
Ronald L. Gutherlet
Samuel H. Henck
Richard G. Holz
Gerald C. Kempthorne
John P. Light
David E. Litrenta
Roger Lee Mehl
Robert J. Myerburg
Michael B. A. Oldstone
Paul A. Reeder Jr.
David L. Rosen
Richard M. Sarles
Richard F. Schillaci

Larry G. Tilley
George E. Urban Jr.

1962

Number of Donors: 34
Participation: 43.59%
Total Contributions: \$10,725.00
Average Gift: \$315.44

Raymond D. Bahr
J. Fred Baker
C. Gottfried Baumann
Merrill I. Berman
Mark Edmund Bradley
Louis C. Breschi
Bruce D. Broughton
John U. Buchman
Jon B. Closson
Paul J. Edgar
Frederick S. Felser
I. F. Hawkins Jr.
William T. Johnstone
Bernard S. Karpers
Stephen H. Kaufman
S. A. Klatsky
Paul A. Kohlhepp
Melvin D. Kopelnick
Alan B. Lachman
Lois H. Love
Kenneth P. Malan
Robert A. McCormick
David G. Musgerd
Ted C. Patterson
Donald David Pet
Phyllis K. Pullen
George C. Schmieler
Gregory J. Sophocleus
W. H. Sothoron Jr.
R. R. Stephenson
Arthur W. Traum
Ralph E. Updike
William B. Weglicki Jr.
William H. Wood Jr.

1963

Number of Donors: 30
Participation: 42.86%
Total Contributions: \$17,765.00
Average Gift: \$592.17

Robert M. Beazley
Lee David Brauer
Nijole B. Carozza
Stephen P. Cohen
Peter C. Fuchs
Leland M. Garrison
B. Robert Giangrandi
Richard L. Goldman
Michael G. Hayes
Alice B. Heisler
D. Robert Hess Jr.
William H. Howard
Thomas V. Inglesby
Paul F. Kaminski
William A. King
Merrill M. Knopf
Kenneth G. Magee
Barbara A. McLean
Stanley L. Minken
Charles R. Mock
Janet E. Mules
Neal J. Prendergast
Horace T. Ray
Mayer Schwartz

Alice M. S. Shannon
Mitchell C. Sollod
Frank J. Travisano
Edward C. Werner
Joseph R. Wilson
Aron Wolf

1964

Number of Donors: 27
Participation: 39.13%
Total Contributions: \$12,225.00
Average Gift: \$452.78

Sigmund A. Amitin
Michael N. Ashman
L. Bradley Baker
Larry Becker
Miriam L. Cohen
Donald A. Deinlein
Robert L. Gingell
Simon D. Glass
Lee E. Gresser
Mark E. Krugman
Donald T. Lewers
Ruth E. Luddy
Edgar V. McGinley
M. S. Michaelis
Joel S. Mindel
David M. Nichols Jr.
Thomas J. Porter
Jerome P. Reichmister
Allen D. Schwartz
William E. Schwartz
Sidney B. Seidman
Perry S. Shelton
Richard G. Shugarman
Lawrence F. Solomon
Harold C. Standiford
Jonathan D. Tuerk
John K. Weagly

1965

Number of Donors: 32
Participation: 40%
Total Contributions: \$12,844.40
Average Gift: \$401.39

Verner Albertsen
Brian J. Baldwin
Barbara J. Bourland
Bruce A. Brian
Jeffrey L. Brown
Larry C. Chong
John C. Dumler Jr.
P. Hudson Fesche
Allen A. Frey
Ronald Goldner

William M. Gould
David R. Harris
Charles S. Harrison
Frederick S. Herold
John C. Hisley
Allen H. Judman
Allan S. Land
John W. Maun
Carlos R. Mendez Bryan
George Peters
Jeffrey E. Pooley
Donald Cornelius Roane
Alfred B. Rosenstein
S. L. Sattenspiel
G. C. Sjolund Jr.
Larry A. Snyder
John M. Steffy
Fred N. Sugar
Harry Tabor
Elliot S. Tokar
Philip Joseph Whelan
Ann Robinson Wilke

1966

Number of Donors: 49
Participation: 48.51%
Total Contributions: \$15,406.62
Average Gift: \$314.42

Diane L. K. Acker
Jay Martin Barrash
Arnold S. Blaustein
Mark J. Brown
Michael P. Buchness
Charles H. Classen
Philip B. Dvoskin
William D. Ertag
Stuart L. Fine
Richard L. Flax
Dwight N. Fortier
J. M. France Jr.
George E. Gallahorn
Richard S. Glass
Dennis H. Gordon
Stephen F. Gordon
Dean H. Griffin
Michael J. Hancy
William O. Harrison
J. M. Hawkins Jr.
Thomas M. Hill
Elizabeth C. Hosick
Larry T. Ingle
Ronald H. Koenig
Joel A. Krackow
Robert E. Leibowitz
Stephen Machiz
Joseph B. Marcus

Classes with the Highest Percentage of Donors

1952	56.25%
1960	54.69%
1959	52.73%
1956	51.56%
1950	51.00%

William J. Marek
William T. Mason
Jane C. McCaffrey
Allan J. Monfried
Carl J. Orfuss
Carolyn J. Pass
Gary D. Plotnick
Samuel E. Press
C. Downey Price
James A. Quinn
Dudley Allen Raine Jr.
Ernesto Rivera
Alfred A. Seritella
Richard D. Shuger
Irvin M. Sopher
James W. Spence
David J. Steinbauer
Jack I. Stern
Jeffrey S. Stier
Henry L. Trattler
Robert R. Young

1967

Number of Donors: 44
Participation: 46.32%
Total Contributions: \$14,975.00
Average Gift: \$340.34

Elizabeth A. Abel
John A. Bigbee
William F. Bloom
William L. Boddie
Colvin C. Carter
Gerard D. Dobrzycki
Francis D. Drake
Harris J. Feldman
Ira L. Fetterhoff
Henry Feuer
Robert O. France
John Wm. Gareis
Joseph S. Gimbel
Joel H. Gofman
David M. Hadden
James L. Hamby
John S. Ignatowski
Michael A. Kaliner
Eugene F. Kester
George A. Lapes
Gary M. Lattin
Stuart H. Lessans
Richard H. Mack
Sheldon L. Markowitz
David S. McHold
Alan H. Mitnick
Boyd D. Myers
Fred R. Nelson
Edward B. Ostroff
Gerald M. Pohost
Jean Posner
Allan S. Pristoop
Ralph D. Raymond
John F. Rogers
John R. Rowell
John C. Sewell
Michael L. Sherman
David M. Snyder
Robert A. Sofferman
John R. Stephens
Kenneth B. Stern
Michael D. Sussman
Larry J. Warner
Allan M. Wexler

1968

Number of Donors: 45
Participation: 41.28%
Total Contributions: \$17,930.00
Average Gift: \$398.44

Willard P. Amoss
Richard A. Baum
Sheldon B. Bearman
Michael W. Benenson
Barry A. Blum
Morton B. Blumberg
Robert Brull
Joseph F. Callaghan Jr.
Elliot S. Cohen
Allen C. Eglott
Gerald B. Feldman
John G. Fritzer
John D. Gelin
Ronald S. Glick
Stephen L. Hooper
James G. Kane
George M. Knefelcy Jr.
Charles J. Lancelotta Jr.
Barry A. Lazarus
Ronald M. Legum
Gordon L. Levin
Abraham A. Litt
Philip Littman
Stanford H. Malinow
Karl F. Mech Jr.
H. E. Mendelsohn
Anthony L. Merlis
Bruce L. Miller
Joel Wm. Renbaum
David J. Riley
Rorick T. Rimash
Norbert H. Roehl
Stephen D. Rosenbaum
Charles S. Samorodin
Barry J. Schlossberg
Burton G. Schonfeld
Howard Semins
Michael J. Shack
Wilfred B. Stauffer
Jon M. Valigorsky
P. J. Vergne Marini
Stanley R. Weimer
Eugene Willis Jr.
Stuart Winakur
Edward J. Young

1969

Number of Donors: 36
Participation: 31.58%
Total Contributions: \$18,160.00
Average Gift: \$504.44

Mark M. Applefeld
Edward E. Aston IV
J. O. Ballard III
Emile A. Bendit
Sanders H. Berk
John C. Blasko
Roberta M. Braun
George R. Brown
Stan Brull
Donald Wm. Bryan
Paul J. Connors
Howard A. Davidov
Ronald L. Elson
Richard E. Fisher
Donna L. Gibbas

Graham Gilmer III
Samuel D. Goldberg
Roy R. Goodman
Marvin J. Gordon
Constance L. Holbrook
Anne S. Jacques
Ronald A. Katz
William P. Meseroll
Arthur V. Milholland
Edwin E. Mohler
Wayne H. Paris
Robert W. Phillips
Harry Rabinovich
Brian S. Saunders
Ronald L. Schneider
W. Winslow Schrank
John W. Shaffer
David M. Shubin
William I. Smulyan
David A. Solomon
Kristin Stueber

1970

Number of Donors: 39
Participation: 34.82%
Total Contributions: \$17,026.40
Average Gift: \$436.57

Arthur O. Anderson
Harry A. Ardolino
David H. Berkeley
David H. Berman
Charles N. Bookott
Martin Braun
Leo A. Courtney III
Dwight E. Cramer
Joseph H. Cunningham Jr.
Donald D. Douglas
A. Stephen Dubansky
Joseph N. Friend
Michael A. Grasso
Stephen B. Greenberg
Louis S. Halikman
Lin H. Ho
Kenneth M. Hoffman
Whitney Houghton
Michael Kilham
James A. Kopper
Bennett L. Lavenstein
Henry A. Lewis
Philip A. Mackowiak
C. B. Marek, Jr.
Thomas P. Miles
James S. Murphy
David A. Perry
Leslie P. Plotnick
John H. Pohlman
R. B. Pollard, Jr.
Gerald M. Rehert
Walker L. Robinson
Robert F. Sarlin
Louis A. Shpritz
Gregory T. Sobczak
Stanley S. Tseng
Arthur M. Warwick
Charles I. Weiner
S. M. Zaborowski

1971

Number of Donors: 31
Participation: 27.43%
Total Contributions: \$12,075.00
Average Gift: \$389.52

Peter W. Beall
George H. Brouillet
Ronald Paul Byank
Michael R. Camp
Larry I. Corman
Steven A. Feig
Louis G. Gelrud
Burton J. Glass
Robert B. Greininger
Gary A. Grosart
Peter M. Hartmann
C. F. Hobelmann Jr.
Gwynne L. Horwitz
Jerald Kay
Rena L. Kay
John B. Kramer
William R. Luthicum
Jack S. Lissauer
Michael J. Maloney
R. M. Mentzer
Robert J. Neborsky
R. Henry Richards
Donald M. Rocklin
Paul T. Rogers
Henry G. Sacks
JoAnn C. C. Santos
Michael J. Schultz
Robert E. Sharrock
Panayiotis L. Sitaras
Kerry J. Thompson
C. T. Woolsey Jr.

1972

Number of Donors: 43
Participation: 33.08%
Total Contributions: \$17,349.00
Average Gift: \$403.47

Barbara Rosenthal Adler
Jack J. Applefeld
Robert J. Bauer
William K. Bott
Elizabeth R. Brown
Howard Caplan
Irvin M. Cohen
Theodore H. Cryer
Walter H. Dorman
C. Thomas Folkemer
Darryl J. Garfinkel
Matthew J. Gibney
Sheila S. Gibney
Michael E. Golembieski
Sumner H. Goodman
Roger L. Gordon
Robert B. Grossman
John C. Harris
Joseph K. Jamaris
Jeffrey J. Kline
Richard B. Kline
Mark J. LeVine
Deborah Brandchaft Matro
George A. Metzger
Stanley A. Morrison
Joseph D. Moser
John A. Niziol
John M. O'Day
Martin S. Rosenthal
Joseph S. Shapiro
Richard H. Sherman
Gerard V. Smith
H. Hershey Sollo
Thomas J. Toner Jr.
Peter D. Vash
Jerald P. Waldman

Eliot M. Wallock
Howard E. Weinstein
Thomas V. Whitten
Brian J. Winter
Celeste L. Woodward
Ivy J. Yaffe
Edgardo I. Yordán Jr.

1973

Number of Donors: 41
Participation: 34.17%
Total Contributions: \$14,055.00
Average Gift: \$358.20

Bruce I. Beck
Jeffrey C. Blum
Thomas Calame
Charles R. Clark
W. Edwin Conner
Michael J. Dodd
Steven H. Dolinsky
Edward M. Eisenbrey
Jean M. Eisenbrey
William R. Gaver
Nelson H. Goldberg
David A. Goldscher
David J. Greininger
Steven J. Gross
Daniel C. Hardesty
Louis E. Harman III
David E. Herman
David L. Hoover
Mark Jacobs
Michael F. Jaworski
Erich Kim
Walter B. Koppel
Merrie D. Landy
Jeffrey S. Lobel
Denis Wm. MacDonald
Samuel V. Mace
Thomas E. Mansfield
A. Robert Masten
Elizabeth Feeney Masten
Donald J. Russ
Alfred J. Saah
Howard I. Saontz
Ronald A. Seft
Gregory B. Shankman
Ronald F. Sher
Robert B. Stiller
Ira M. Stone
Ronald J. Taylor
Charles B. Watson
John L. Whitlock
Alan L. Whitney

1974

Number of Donors: 39
Participation: 28.46%
Total Contributions: \$10,372.00
Average Gift: \$265.95

Samuel I. Benesh
Lynn M. Billingsley
Jeffrey P. Block
Richard A. Block
Alan L. Carroll
James G. Chaconas
R. P. Christianson
Thomas C. Doerner
Stephen B. Fleishman
Daniel K. Foss
Edward S. Gratz

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Carole S. Kornreich
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Terrance P. McHugh
James Jay McMillen
Stephen E. Metzner
Joel B. Miller
Sheldon D. Milner
Susan R. Panny
Jeffrey Pargament
Edward L. Perl
Jay A. Phillips
Clayton L. Raab
James M. Raver
Sue V. Raver
Michael E. Reichel
Susan Kosnik Ross
Edward N. Sherman
Jessie D. Stahl
Elise W. Van der Jagt
Steven A. Vogel
David L. Zisow

1975

Number of Donors: 59
Participation: 45.74%
Total Contributions: \$26,445.00
Average Gift: \$448.22

Charles E. Andrews
James L. Atkins
Linda S. Bartram
Robert J. Beach
Bruce E. Beacham
John F. Biedlingmaier
Jonathan D. Book
Timothy J. Byrnes
James Joa Campbell
John H. Carrill
Seth B. Cutler
Karl W. Diehn
L. Thomas Divilio
James R. Evans
Patricia Falcao-Blumenfeld
Louis Fox
Judith Gadol
Robert B. Garrett
Gary F. Harne
Albin W. Harris
Charles F. Hoesch
Dorothy Shih Yi Hsiao
Kenneth V. Iseron
Brian S. Kahntroff
M. C. Kowalewski
Thomas F. Krajewski
Mary Lou Kramer
Thom E. Lobe
Charles E. Manner
W. Peter Marwede
Scott M. McCloskey
Jeffrey L. Metzner
Edward M. Miller
Thomas L. Moffatt
Parry A. Moore
Frank H. Morris
Nicolette Orlando Morris

Arnold L. Oshinsky
Harvey B. Pats
Kathryn A. Peroutka
L. Edward Perraut Jr.
Jeffrey L. Quartner
Sandra D. L. Quartner
James A. Reggia
Steven P. Rivers
Robert E. Roby
John W. Rose
Andrew B. Rudo
James H. Somerville
Ronald J. Spector
Michael B. Stewart
George A. Taler
Richard L. Taylor
Lloyd M. Van Lunen Jr.
Robert A. Vegors
Gary J. Waxman
Michael E. Weinblatt
John L. Young
Julius D. Zant

1976

Number of Donors: 45
Participation: 30.61%
Total Contributions: \$13,990.00
Average Gift: \$310.89

Timothy E. Bainum
Steven M. Berlin
Damian E. Birchess
John W. Bowie
Janet F. Brown
William G. Brown
Michael E. Cox

Dorothy K. MacFarlane
James E. Mark
Eva H. B. McCullars
Arnold B. Merin
W. Bruce Obenshain
Gary P. Posner
M. H. Rubenstein
William F. Ruppel
Bruce A. Silver
Gary L. Simon
Lee S. Simon
James W. Srouf
William B. Tauber
Joseph R. Tiralla
Deborah F. Weber
Sherry L. Werner
Joan E. Whitehouse Gible
Susan M. Willard
Pamela A. Wilson
Benjamin K. Yorkoff
Joseph W. Zehley III
Robert G. Zeller

1977

Number of Donors: 50
Participation: 31.01%
Total Contributions: \$16,350.00
Average Gift: \$327.00

Michael F. Adinolfi
Stuart B. Bell
Ronald S. Benenson
Marc S. Bresler
Marie D. Chatham
Elwood A. Cobey
William Joseph Dichtel
Rona B. Eisen
Frederic T. Farra

Martin Koller
Sheldon H. Lerman
Eva Magiros
Ellis Mez
John P. Miller III
Edward B. Mishner
Coleman A. Mosley
A. Antonio Plucis Turkopulo
Steven H. Resnick
Gary D. Ruben
Michael S. Sellman
Richard B. Silver
Bruce H. Sindler
Steven G. Steinberg
Clyde A. Strang
David Strobel
David D. Tinker
Michelle D. Uhl
Jonathan R. Walburn
Bennett E. Werner
Katherine C. White
Barry A. Wohl
Richard J. Zangara
Stephen M. Zemel

1978

Number of Donors: 51
Participation: 29.94%
Total Contributions: \$16,571.00
Average Gift: \$369.324.92

Philip A. Ades
Robert E. Applebaum
Susanne S. Ashton
Charles Wm. Bennett
Adam Billet
Steven Billet
Edward N. Bodurian
Howard Boltansky
Timothy Burton
David E. Cohen
Ira J. Kalis Cohen
Louis J. Domenici
Franklin M. Douglas
Jonathan A. Edlow
Ian S. Elliot
John L. Fiore
Andrew Paul Fridberg
Marianne N. Fridberg
Edward J. Goldman
Michael D. Gotts
Richard A. Gruen
Richard H. Hallock
Sandra S. Isbister
David E. Kelley
Elizabeth M. Kingsley
Alan J. Levin
Mark D. Lisberger
Michael N. Macklin
Gregory D. McCormack
Stephen A. Metz
Jeffrey G. Middleton
Harvey S. Mishner
Jeremy S. Musher
David G. Oelberg
Gary C. Prada
Jay G. Prenskey
Susan E. Prevas
William Prevas
Susan H. Prouty
James F. Rooney
Ronald J. Ross
Lawrence D. Sandler
Simon V. Scalia

Robert S. Shayne
Alex Sokil
Edward Timothy Souweine
Eileen K. Stork
Ellen L. Taylor
Stephen A. Valenti
Neil E. Warren
Bruce E. Weneck

1979

Number of Donors: 35
Participation: 21.47%
Total Contributions: \$16,891.00
Average Gift: \$482.60

William E. Becker
Bradley S. Bender
Theodore V. Benderev
Joanne L. Blum
Karen C. Carroll
Christopher S. Formal
Scott D. Friedman
Jeffrey D. Gaber
Leon W. Gible
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David B. Tapper
Elizabeth L. Tso
Thomas B. Volatile
Harlan F. Weisman
Perrin Laverson Wittgrove
A. F. Woodward Jr.
Kristen A. Zarfos

1980

Number of Donors: 64
Participation: 36.16%
Total Contributions: \$19,795.00
Average Gift: \$309.30

Louis M. Bell Jr.
Donald E. Brown Jr.
Douglas R. Brunner
Francis K. Butler
Terence D. Campbell
Wayne E. Cascio
Robert P. Cervenka
Jane L. Chen
Joseph P. Crawford
Kirk D. Cylus
Margaret D. Eby
Judith Falloon
Milford Mace Foxwell
Cathy Ann Friedman
Grace K. Gelletly
Alan I. Gelman

Classes with the Most Davidge Alliance Members

1975	29
1970	19
1960	18
1973	17
1956	17

Vincent W. DeLaGaza
Phillip M. Dennis
Suzanne Ray Dixon
Edward F. Driscoll
Christopher Fietarek
Ellen B. Feifarek
William G. Flowers
D. Stewart Ginsberg
Allan S. Gold
Ira E. Hantman
Gary M. Jacobs
Patricia D. Kellogg
Jacqueline Kelly
Harry Clarke Knapp
Barry K. Levin
Miriam Yudkoff Lloyd

Richard J. Feldman
Robert T. Fisher
Donna L. Frankel
Samuel D. Friedel
Linda L. George
Alan S. Gertler
Doris S. Gertler
Anne C. Goldberg
Beverli S. Goldberg
Neil D. Goldberg
Charles Edward Green
Marlene T. Hayman
Howard C. Hines
Dahlia R. Hirsch
Brooks F. Hodnette
Christopher F. James
Ronald L. Kahn

Honor Roll

Marcia P. Goldmark
 Peter J. Golucke
 Lee J. Helman
 Jan L. Houghton
 Kenneth A. Jurist
 Marian F. Kellner
 Michael R. Kessler
 James C. King Jr.
 Jeffrey A. Kleiman
 Susan L. Laessig
 Anne D. Lane
 Peter T. Lapinsky
 Charles E. Lee
 Mark D. Leeson
 John R. Livengood
 Robert Y. Maggin
 Teri A. Manolio
 Richard A. Marasa
 Karen J. Marcus
 John N. Margolis
 David J. Markowitz
 David Bruce Matchar
 Margaret E. McCahill
 Timothy P. McLaughlin
 Steven M. Miller
 Judah A. Minkove
 Thomas P. Moran
 William J. Oktavec
 Keith D. Osborn
 David I. Otto
 Craig H. Paul
 Guy H. Posey
 Michael F. Pratt
 Roger J. Robertson
 W. Michael Rogers
 R. L. Rudolph II
 Alan J. Sacks
 Robert L. Schiff
 Kenneth H. C. Silver
 Roy T. Smoot, Jr.
 Victoria W. Smoot
 Sally E. Sondergaard
 Charles S. Specht
 H. H. Startzman III
 Henry W. Sundermier
 Phuong D. Trinh
 Emily A. Ulmer
 Eric V. Van Buskirk

1981

Number of Donors: 41
Participation: 24.40%
Total Contributions: \$10,464.00
Average Gift: \$255.22

Peter M. Barker
 James M. Carlton
 Candace I. Chandler
 William Z. Cohen
 Alice Magner Condro
 Kevin J. Doyle
 Daniel P. Ferrick
 Frederick G. Flaccavento
 Neal M. Friedlander
 Michelle Gelkin
 Samuel C. Gold
 Hope U. Griffin
 Howard T. Jacobs
 Marc A. Jaffe
 Yumi Shitama Jarris
 Brian H. Kahn
 Mark C. Lakshmanan
 Andrew M. Malinow
 Gordon L. Mandell
 Stephan C. B. Mann
 Carol S. Marshall

Scott T. Maurer
 David C. Miller
 Andrew G. Misulia
 Paul E. Mullen II
 Kathryn M. Neuman Rudin
 Marc Okun
 James L. Pertsch
 Brien E. Pierpont
 Alan R. Pollack
 Deborah R. Pollack
 Donna L. Rinis
 Howard N. Robinson
 Lauren A. Schnaper
 Howard L. Siegel
 Samuel Smith
 Carl Sperling
 Rebecca Tominack
 Brian W. Wamsley
 Samuel A. Yousem
 Laurie T. Zimmerman

1982

Number of Donors: 39
Participation: 22.41%
Total Contributions: \$11,750.00
Average Gift: \$301.28

Christopher M. Aland
 Guillerme W. Arnaud
 Wayne L. Barber
 David C. Barnes
 Kenneth A. Blank
 Paul S. Brockman
 Charles Carroll
 Ronald F. Christianson
 Joseph P. Connelly Jr.
 Thomas W. Conway
 Brian K. Cooley
 John M. DiGrazia
 Robert J. Fadden
 Patrick F. Gartland
 Warren Gibbs
 J. Philip Hall
 C. William Hicks III
 Donald G. Hope
 Constance J. Johnson
 Bruce A. Kaup
 Darryl B. Kurland
 Karl I. Lanocha
 Carole R. Lerman
 Gary M. Levine
 Mary Beth Lindsay
 James W. Miller II
 Paul R. Miller
 Andrew V. Panagos
 Steven H. Parker
 Daniel M. Perlman
 Robert E. Perry
 Ralph T. Salvagno
 Thomas A. Samaras
 Jerry B. Schwartz
 Marc H. Siegelbaum
 Laura L. Stephenson
 Leon Strauss
 Corina J. Waldman
 David L. Waxman

1983

Number of Donors: 44
Participation: 23.30%
Total Contributions: \$14,535.00
Average Gift: \$330.34

Ali J. Atrookteh
 Marc B. Applestein
 E. Allan Atwell

Classes with the Highest Number of Donors

1980	64
1975	59
1978	51
1977	50
1966	49

Jeffrey J. Bernstein
 Bruce A. Blacker
 George M. Boyer
 Harry A. Brandt
 Monica A. Buescher
 Craig E. Collins
 Protogoras N. Cutchis
 Stephen W. Deijter Jr.
 L. J. Eglbender III
 Gramia Feddis
 Neil B. Friedman
 Stuart H. Goldberg
 George Thomas Grace
 James D. Herr
 Thomas R. Hornick
 David P. Johnson
 Mary Jo Johnson
 Roy A. Kottal
 Jeffrey K. Moore
 David S. Moss
 Denis J. O'Fallon
 Patricia A. O'Hora
 Nancy Prosser
 Mark E. Richards
 Marc S. Rocklin
 William G. Rudolph
 Ronald N. Sakamoto
 Sonia M. Saraco
 Frederick W. Schaert
 David J. Schaump
 Ronald H. Schuster
 Donald L. Sherry
 Robert B. Shochet
 Milton S. Snradach Jr.
 Alfred D. Sparks
 James D. Spiegel
 Victoria A. Vanik
 Margaret M. Vaughan
 Robert F. Walker
 Emmanuel B. Walter Jr.
 Robert V. Zawodny

1984

Number of Donors: 33
Participation: 19.76%
Total Contributions: \$17,358.00
Average Gift: \$526.00

Joseph A. Adams
 Roy E. Bands, Jr.
 Linda F. Barr
 Donald M. Beckstead
 John F. Cary
 Ed O. Chambers III
 Ellen S. Deutsch
 John R. Downs
 Lindsay Golden
 Thomas E. Jordan

William B. Kerns
 Theodore Y. Kim
 N. W. Koutrelakos
 Frederick E. Kuhn
 Susan M. Lancelotta
 David R. Lee
 Lee Win Liu
 Lynn M. Ludmer
 Daniel M. Marder
 Dale R. Meyer
 Carole B. Miller
 Vinay M. Nadkarni
 R. Matthew Reveille
 Paul R. Ringelman
 Samuel M. Rosenberg
 Leroy M. Schmidt
 Martin L. Schwartz
 Luette S. Semmes
 Dana S. Simpler
 Carmela A. Sofia
 Katherine D. Tobin
 Helen E. Walker
 Jeremy P. Weiner

1985

Number of Donors: 42
Participation: 25.15%
Total Contributions: \$16,573.67
Average Gift: \$394.61

Ira S. Allen
 Nicholas B. Argento
 Susan Barrows
 Wendy J. Bergman
 Joanna D. Brandt
 Peter F. Burns
 Agnes O. Cottay
 Lynne D. Diggs
 John Stephen Dumler
 Mark J. Ehrenreich
 Frederick M. Gessner
 Daniel I. Ginsberg
 Peter R. Gray
 Robert C. Greenwell Jr.
 Michael J. Hallowell
 Charles S. Hames
 Sharon M. Henry
 Sean E. Hunt
 Thomas Bryan Johnson
 Jeffrey Jones
 Marc A. Kaufman
 Francisco C. King
 Jay K. Kolls
 Donald R. Lewis Jr.
 Alan R. Malouf
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 Patricia B. Patterson
 Michael Platto

David W. Porter
 Michael P. Rugglemann
 Harri C. Sachs
 Sharon B. Samuels
 S. J. Schoenfelder
 Michael J. Sicuranza
 Eric C. Sklarew
 Mark A. Taylor
 Laszlo R. Trizkovich
 Robert A. VanBiesen
 Vivek K. Varma
 H. Von Marensdorff
 Paul R. Weiner

1986

Number of Donors: 47
Participation: 27.98%
Total Contributions: \$10,385.00
Average Gift: \$220.96

Fouad Mahmoud Abbas
 Marilyn F. Althoff
 Stephanie Harris Applebaum
 Nathan E. Carnell
 Eugenio Roberto China
 Colleen L. Cook
 James Allen Dicke
 Katherine Duffy
 Charles W. Emala
 Stephen Michael Fanto
 Brian K. Flowers
 Scott William Fosko
 Stephen Wayne George
 Raphael Y. Gershon
 David L. Gold
 Albert Sydney Hammond
 Sangwoon Han
 Craig D. Hochstein
 Paul Erick Hogsten
 Kelly Ann Hunter Fanto
 Elizabeth A. Janczur
 Karen M. Kabat
 Thomas E. Kelly
 Lee Allan Kleiman
 Jan M. Koppelman
 Dennis Kurgansky
 Boris W. Kuvshinov II
 Karen Anne Lavoie Starr
 Joseph Gregory Liberto
 Marsh Randy McEachrane
 Scott A. Milstein
 Gregory K. Morrow
 Denise Murray
 David W. Oldach
 Joan Ordman
 Toby Ann Rutterhoff
 Seth D. Rosen
 Judith Lynn Rowen
 John F. Rubin
 Lisa A. Scheinin
 Jonathan S. Schwab
 Nadine B. Seimer
 Asad U. Sheikh
 Henry Tsao
 Nicholas Vaisnich
 Mark J. Vocci
 Julia Ann Williams

1987

Number of Donors: 28
Participation: 19.29%
Total Contributions: \$9,610.00
Average Gift: \$343.21

Susan Goldberg Baruch
 Mark D. Bullock

Honor Roll 2009

Henry J. Chen
Kathleen A. Devine
John Gary Evans
Adam Howard Fischler
Charles Patrick Fitch
Michael Patrick Flanagan
Heidi L. Frankel
Allan Frankle
Jennifer Suzanne Gass
Bruce David Greenwald
Ralph Gregg
Elizabeth Roberta Hatcher
Kevin E. Hohl
Betty Ann Kyser
G. Michael Maresca
Thomas B. Mulford
Jennifer L. Murphy
James Paul Natario
Susan Suholet Nesbitt
Timothy D. Nichols
P. Raj Seetharaman
Roger M. Stone
Paul A. Tarantino
Thomas S. Wilson
Shelly Wong Woodward
D. V. Woytowicz

1988

Number of Donors: 33
Participation: 24.26%
Total Contributions: \$9,420.00
Average Gift: \$285.45

Charles Berul
Thomas P. Carr
Eugene B. Choo
Carol C. Coulson
Paula A. DeCandido
Matthew R. Dukehart
Albert G. Fedalei
James V. Ferris
Mark H. Fraiman
Keith B. Gustafson
Gregg L. Heacock
Jay C. Koons
Roger J. Levin
Marilyn N. Ling
Christopher J. Mays
Mary J. Minton
Richard D. Patten
Suresh Philip
Philip C. Pieters
Jeffrey P. Ross
Gail M. Royal
David B. Schnitzer
Jonathan A. Seidenberg
Stanley Joonho Shin
Kelley Willis Sullivan
Kenneth K. Tam
Mark J. Titu
Todd A. Trutch
Marcos A. Ugarte
Michael A. Wilson
Raymond A. Witzstadt
Monford A. Wolt
Marcella A. Wozniak

1989

Number of Donors: 36
Participation: 25.35%
Total Contributions: \$10,205.00
Average Gift: \$283.47

John T. Alexander
Arjun S. Channugam
J. William Cook IV
Daniel L. Croteau
Steven R. Daviss
Erin R. Drew
Michael O. Duhaney
Clarita G. Frazier
David A. Gnegy
Randolph B. Gorman
Ann S. Hagen
Stephen F. Hatem
Steven E. Hearne
James W. Heitz
Elizabeth Lee Herrera
Judith Hutchinson
Babak J. Jamasbi
Norman A. Lester
Ann L. Mattson
Robert T. Maupin Jr.
Joy L. Meyer
Eric Millman
Howard J. Morris
Lawrence G. Narun
Mary E. Pagan
Merdad V. Parsey
David A. Riseberg
Glenn L. Sandler
Lise K. Satterfield
David S. Scharf
David P. Smack
Loreli S. Smith
Eugene J. Sullivan
Tackson Tam
Irving V. Westney
Robin Williams

1990

Number of Donors: 28
Participation: 20.74%
Total Contributions: \$5,825.00
Average Gift: \$208.04

Samuel M. Alaish
Carolyn M. Apple
David H. Balaban
Noelle Scaldara Bissell
Nicholas M. Cardiges
William Pierson Cook
Jennifer P. Corder
Peter E. Darwin
John C. Davis Jr.
Karin M. Dodge
Margaret A. Flowers
Carl E. Gessner
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Stephanie L. Linder
Mindy M. Meltzer Roeser
Mark A. Mighell
Julia D. Oakley
Kenneth J. Oken
Cynthia M. Owen
Martin I. Passen
Michael E. Rauser
Teresa Hoffman Rosen
Morris L. Scherlis
Scott A. Sigman
Tuanh Tounu
Michael L. Viens
Marisa J. Werner
Amy A. Zimmerman

1991

Number of Donors: 29
Participation: 20.42%
Total Contributions: \$3,785.00
Average Gift: \$130.51

Yared Aklilu
Michael Lynn Ault
Lisa Marie Beaudet
Karen Elizabeth Brown
Elizabeth W. Capacio
Jan Foxman Cardinale
Robert M. Cardinale
Elliot Eyan Cazes
Zuzana Chamrova
Beth Gail Diamond
Michael A. Dias
Jason Alan Dominitz
Robert B. Donegan
Jennifer Hollywood
Thomas B. Kelso
Lorrie Regina Mello
Arman C. Moshedy
Bertan Ozgun
John Joseph Pagan
Zinon Mark Pappas
Martha Jane Pierce
Roberto N. Pughisi
Robert E. Rainer II
Cynthia Niemeyer Schaeffer
Christianne Schoedel
Linda E. Smiddy Nelson
David Lee Taragin
Chris Van Beneden
Marjorie K. Warden

1992

Number of Donors: 28
Participation: 18.67%
Total Contributions: \$3,950.00
Average Gift: \$141.07

Eligio B. Aguhob Jr.
Linda Matsas Berger
Nechama Bernhardt
Catherine Booth Heilman
John Bridgman
Eric M. Chang
Subrato J. Deb
William Dubiel
Jeffrey Dubin
Annette Fineberg
Stuart Framm
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Donna S. Hanes
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Huong Pham
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Lisa Kolste Rakowski
Ronald T. Rakowski
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Rebecca Heaps Ward
Verlyn Warrington
Pamela Wright

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Myra F. Framm
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Georgia Stacey Willie, '98
Theodore E. Woodward, '38
John D. Young Jr., '41
Lois A. Young, '60

1993

Number of Donors: 20
Participation: 14.39%
Total Contributions: \$4,326.00
Average Gift: \$216.30

Steven Avezzano
Gregory M. Brouse
Susan Brouse
Paulette Browne
Kathryn M. Connor
Valerie Dyke
Vinay K. Gupta
Debra B. Hurtt
Mark William Keenan
John Kim
Yong B. Lee
Andy Lieberman
Gina Massoglia
Amal Mattu
Douglas Seeb
Douglas A. Smith
Michael W. Stasko
Christopher Welsh

Lore B. Wootton
Thomas H. Yau

1994

Number of Donors: 24
Participation: 19.35%
Total Contributions: \$4,810.00
Average Gift: \$200.42

Paul M. Berger
Konni E. Bringman
Jonathan Calure
Faina V. Caplan
Amy S. Church
Charles W. Curtis
Michelle A. Fontenelle
Thomas A. Hensing
Deborah S. Hopkins
Jason A. Kaplan
Claudia Krasnoff
Scott E. LaBorwit
Nhut C. Le
Shirley S. Lee
Hsiao Hui Lin
Bahador Momeni

Honor Roll

Christopher P. Moore
Jay B. Penahel
George A. Porter Jr.
Anthony B. Quinn
Gail Fredericks Russell
Ronald P. Silverman
Andrew Lawrence Smock
Samuel Woo

1995

Number of Donors: 30
Participation: 21.58%
Total Contributions: \$4,575.00
Average Gift: \$152.50

Melinda Battaile
James Boler
Susan Boyd
Sufen Chiu
Beth Marie Arciprete Comeau
Kevin Dooley
Gail Granof Warner
Sanjay Jagannath
Meredith Josephs
Sanford Katz
Jessica H. Kim
Gwendolyn
Diana McClinton
Edward L. McDaniel
Barry Merrill

William Lance Miller
Suman Mishra
John P. Moriarty
Olayemi O. Osiyemi
Duke Pao
Juan Pardo
Theodore S. Takata
Vinay Thohan
Julie Tishler
James Trumble
David Vroman
Michael Warner
Scott Wincecki
Joyce Wong
Samuel Yoon

1996

Number of Donors: 32
Participation: 21.05%
Total Contributions: \$7,160.00
Average Gift: \$223.75

Rebecca Appleton
Scott Becker
Lesly Berger
Christian Bounds
Paula Boyle
Maureen G. Burdett
Brian Cantor
Joy Collins

Michele Cooper
Robert E. Corder
Marcia Cort
Teresa Cox
Vicki Ellis
Stephen Fisher
Ellie Goldbloom
Jessica Grubb
Julie Hurlock
Frederick T.D. Kaplan
Melyssa Paulson Kottman
Sara Levin
Luis Llerena
David Mandell
Anne Martello
Mary B. Martello
Lisa Miller
Robyn Miller
Jeanette Nazarian
Donna M. Osikowicz
Stephanie D. Silverman
Angela Delclos Smedley
Brenda Stokes
Huyanh Ton

1997

Number of Donors: 31
Participation: 19.87%
Total Contributions: \$6,550.00
Average Gift: \$211.29

George V. Antonopoulos
Jennifer Beall
Allen D. Braun
Troy Brybas
Margaret Kelly Burkhead
Ruwanthi Samaranayake
Campano
Elizabeth Campbell
Chere Monique Chase
Regina Clark
Ronald K. De Venecia
Daniel C. Farber
Rachelle Gadadhar
Matthew Howie
Marie V. Kellett
Rachel Kramer
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Thomas Maslen
Barbara Matthews
Edward McCarron
Andrew Morton
Brian Newcomb
Victoria C. Pierce
G. Anthony Reina Jr.
Martina Atshar Reiss
Darlene Robinson
Heidi Ginter Shah
Janine Smith Ma
Mary Ann Sorra
Debbie Spencer

Edwards Ziedins
Matthew Zmurko

Number of Donors: 24
Participation: 17.27%
Total Contributions: \$3,528.05
Average Gift: \$147.00

Karin A.S. Anderson
Brendan C. Berry
Grace L. Carangal
David Chiu
Patrick J. Connolly
Jonathan E. Davis
Elizabeth D. Feldman
Ryoker K. Imai
A. Christian Iudica
Kathleen St. John Iudica
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UNIVERSITY OF MARYLAND
SCHOOL OF MEDICINE

3rd Annual
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February 6, 2010

Hyatt Regency Baltimore

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Myron L. Weisfeldt, MD
William Osler Professor of Medicine
Director, Department of Medicine
Johns Hopkins School of Medicine
Physician-in-Chief, Johns Hopkins Hospital

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1999

Number of Donors: 32
Participation: 22.86%
Total Contributions: \$8,404.00
Average Gift: \$262.63

Elizabeth M. Brennan
Seth M. Cohen
Leslie Emmert Buck
Lenny Feldman
Thomas D. Horst
Susan P. Hsieh
Christopher J. Jillson
Charlotte M. Jones Burton
Jennifer S. Landy
Jennifer W. McCabe
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Kristin Michelle Ward
Stackpole
Suzanne K. Sysko
Ursula R. Teitelbaum
Frank D. D. Trinh
Elizabeth M. Weaver
Kenneth A. White
Mallory Williams
Stephen T. Woods
Shahid A. Zaidi
Alla Zilberman

2000

Number of Donors: 20
Participation: 14.49%
Total Contributions: \$2,705.00
Average Gift: \$135.25

Shelley Anne M. Bailey
Morgen Bernius
Tamara L. Burgunder
John Francis Caccamese Jr.
Ivan D. Cardona
Esther E. Elliott
Marjorie S. Fridkin
Carla E. Galang
Adam K. Gelrud
Ripley J. Hansalia
Sharon E. Henderson
Joseph M. Herman
Oanh H. Lauring
Nancy M. McGreal
Kelly L. Miller
Matthew D. Sedgley
Claudia P. Tnuitt
Bradley J. Wasserman
Jianping Yang
Thomas Chizen Yu

2001

Number of Donors: 18
Participation: 14.40%
Total Contributions: \$2,624.00
Average Gift: \$145.78

Allison R. Boester
Christopher Calabria
Darren Feldman
Josh S. Forman
Camille Hammond
Joseph G. Hobelmann
Vladimir Ioffe
Elizabeth Ives
Jakub Kahl
Teresa I. Kulie
Barton F. Lane
Sunee N. Nagda
Robert Pargament
Chinh N. Pham
Igor Poltinnikov
Shahrazad Tabibi
Kathy J. Weishaar
Marcie O. Wertheb

2002

Number of Donors: 21
Participation: 15.44%
Total Contributions: \$1,720.00
Average Gift: \$81.90

Karen L. Bauer
Ealena Callender
Apurva Desai
Laura K. Ferris
Eve Fields
Daphne Friedman
Walid Gellad
Matthew Hamilton
Timothy Hinton
Scott M. Katzen
Daniel Kauffman
Peter M. Kuehl
Matthew Kwan
Brett Levinson
Melissa Martin
Shernette L. Prince
Eugenia C. Robertson
Lauren Smith
Matthew Smith
Adam M. Spivak
Elissa C. Thompson

2003

Number of Donors: 20
Participation: 15.87%
Total Contributions: \$1,325.00
Average Gift: \$66.25

Katerina Backus
Jared R. Berkowitz
Stephanie Borum
Todd W. Flannery
Sharla Hart
Rachel Hartman
Bridget A. Hilliard
Jeffrey T. Hobelmann
Erica Johnson
Meredith A. Johnston
Hilary Koprowski II
Jeremy P. Middleton
Matthew Orman

Abbe J. Penziner
Jill Rathen
Karen M. Sutton
Richard A. Tempel
Ann G. Tseng
Tasios Vakkas
Mark H. Wernick

2004

Number of Donors: 20
Participation: 14.60%
Total Contributions: \$1,035.00
Average Gift: \$51.75

Camila Libel Arnaudo
Mark H. Davino
Antonette J. Brigid Frasca
Katherine Gamble
Robert J. Habicht
Allison K. Hobelmann
Christopher Hydorn
Corinne Sokolik Jackson
Anne Marie Kelly
Leila Zernah Khan
Sean Khozin
Michael Perraut
Karen P. Riggs
Kathryn S. Robinett
Ryan Shugarman
Benjamin Snyder
Kristina Suson
Romina M. Thomas
Robin Veidt
Naamah Zitomersky

2005

Number of Donors: 12
Participation: 8.76%
Total Contributions: \$870.00
Average Gift: \$72.50

Anonymous
Robert B. Boughan
Natalie M. Branagan
Jason R. Corneliuss
Michelle A. Folsom
Nicole S. Gable
Christopher K. Grybauskas
Bryan J. Loeffler
Janelle M. Martin
Jennifer A. Roth
Gareth J. Warren
Regina F. Wong

2006

Number of Donors: 18
Participation: 12.86%
Total Contributions: \$756.00
Average Gift: \$42.00

Christina Bennett Fee
Kathryn E. Berryman
Stephanie S. De Wit
Mark Domanski
Julie Fifer
Adam D. Friedlander
Katherine Goetzinger
Andrew Heath
Leah C. Jones
Jonathan King
David Lundy
Elise A. Malecki
Jesse Mez
Jeffrey Mindel

Rachel Santora
Mark Schneyer
Cathleen Sybert
Darlene Weekes

2007

Number of Donors: 13
Participation: 8.44%
Total Contributions: \$490.00
Average Gift: \$37.69

Timothy Chizmar
Latrica Cook
Kathryn Gloyer
Elisa Knutsen
Amanda Kramer
Bradley Kramer
Adriana J. Laser
Megan Niziol Alcock
Tania Markowski Peters
Jared Reaves
Brian So
Alan Spiegel
Hava Tillipman

2008

Number of Donors: 17
Participation: 11.97%
Total Contributions: \$715.00
Average Gift: \$42.06

Eric Buchner
David J. Carlberg
Michelle Y. Cho
Kathryn Cobb
Jessica Degrandis
James Gardner
Ellen Goldmark
Jason J. Heavner
Nadine Himelfarb
Stephanie Kahntroff
George Kochman
Ronald H. Lee
Zaineb Makhzoumi
Michelle Melo
Christopher R. Mitchell
Elizabeth Nichols
Vikrant Uberoi

Current & Former Faculty & Staff

Mohamed S. Al Ibrahim, MD
Akshay N. Amin, MD
Satuh Attar, MD
Elizabeth Barnett, MD
Mr. Harold G. Bell
Rita S. Berndt, PhD
Miriam G. Blitzer, PhD
Angela H. Brodie, PhD
Brian J. Browne, MD
Jules Cahan, MD
E. W. Campbell Jr., MD
Charlotte Ferencz, MD
Kevin S. Ferentz, MD
Michael L. Fisher, MD
Ronald W. Geckler, MD
Mahmood Jaberi, MD
Mishbah Khan, MD, MPH
Karen Kotloff, MD
Allan Krumholz, MD
Linda L. Lutz, MD
Colin F. Mackenzie, MD
Mr. Pat Madden

David B. Mallott, MD
Prasanna Nair, MD
Mr. Dennis Narango
Chris Papadopoulos, MD
S. Michael Plaut, PhD
Richard D. Richards, MD
Moon Lee Shin, MD
David J. Silverman, PhD
George T. Strickland, MD/
PhD


Friends

Daniel L. Arons, MD
Mr. Daniel H. Borinsky
Mrs. Nancy J. Bradshaw
Ms. Bettye F. Coil
Mrs. Helen Curanzy
Mr. Dan & Mrs. Mary Dent
Mrs. Helen Penn Dorf
Mr. Charles S. Faller Jr.
Mr. Alan T. Fell
Mrs. Michelle W. Goldman
Wilbur C. Jensen, Esq.
Mr. Michael S. Karas
Mrs. Madge Reamer Kolman
Mr. Timothy R. Lewis
Mr. & Mrs. Roger C. Lipitz
Ms. Suzanne Lontor
Mrs. Carolyn B. McGuire
Frenkil
Mrs. Elaine McKay
Ms. Jane Nelson
Mrs. Babette H. Rosenberg
Mr. Robert W. Schaefer
Mr. Henry F. Schoenfeld
Mrs. Elizabeth S. Trump
Mr. Jay H. Weiss
Mr. George S. Willie

Corporations & Foundations

The Associated Jewish
Community Federation
Bananza Productions, Inc.
Becton Dickinson & Company
Columbia Pictures Industries,
Inc.
Emergency Physicians, PA
Eli Lilly & Company
The Eliasberg Family
Foundation
Frank C. Marino Foundation
The Jewish Community
Foundation of South Palm
Beach
Johnson & Johnson
Corporation
Merck & Company, Inc.
Ocean Pines Tennis Club
Pfizer Foundation Matching
Gifts Program
PNC Bank
University Of Maryland
Baltimore Foundation
University Physicians, Inc.
Wachovia Trust
WellPoint Associate Giving
Campaign

Bring Home a Piece of Medical School History



Order Your Davidge Elm

The original English Elm was planted beside Davidge Hall in 1812, the year our medical building opened for instruction. When it was removed in December 2001—189 years later—its seedlings were shipped to a nursery. A limited number are now available for purchase with shipment scheduled for March 2010.

To order your Davidge Elm, please contact Larry Pitrof at the Medical Alumni Association by calling 410.706.7454 or emailing larry@medalumni.umaryland.edu. The purchase price includes shipping, planting at your location, and a tax-deductible gift to the Davidge Hall

Appointments to National Organizations



Joana Carneiro Da Silva, PhD

Joana Carneiro Da Silva, PhD, assistant professor, department of microbiology & immunology and institute for genome sciences, was invited to join the editorial board of the newly-created open access

journal launched by Oxford University Press, Database: *The Journal of Biological Databases and Curation*.



Steven J. Czinn, MD

Steven J. Czinn, MD, professor and chair, department of pediatrics, has been invited to serve as a member of the gastrointestinal mucosal pathobiology study section, center for scientific review for the National Insti-

tutes of Health (NIH) for the term beginning July 1, 2009, and ending June 30, 2013. Invited members are selected to serve on the study section based on demonstrated competence and achievement in their scientific discipline as evidenced by the quality of their research accomplishments. In addition to the member's scientific research accomplishments, their publication record in scientific journals and other significant scientific activities, achievements and honors are reviewed. Czinn will review grant applications submitted to the NIH, make recommendations on the applications to the appropriate NIH national advisory council or board and survey the status of research in his field of science.

Robert L. Rogers, MD, assistant professor, department of emergency medicine, has been elected as an at-large member of the executive committee of the Academy of Clerkship Directors in Emergency Medicine (CDEM). The CDEM is a national network that provides medical student educators with educational resources and opportunities for faculty development and networking. The election results were announced during the annual meeting

of the Society for Academic Emergency Medicine, held in New Orleans in May.



Mary M. Rodgers, PhD, PT

Mary M. Rodgers, PhD, PT, professor and chair, department of physical therapy & rehabilitation science, has been selected as a Catherine Worthingham Fellow (CWF) of the American Physical Therapy

Association (APTA). Rodgers was recognized at the honors and awards celebration during the annual APTA conference in Baltimore in June. The CWF distinction is the highest honor given to members of the APTA. Among other reasons, Rodgers was chosen for her demonstrated advancement of the profession of physical therapy particularly in the domain of research. She is nationally recognized by APTA members and by leaders outside the physical therapy profession in research, education, and practice, and her frequent and sustained efforts to advance the profession through contributions (leadership, influence and achievements) for more than 15 years. There are only 127 fellows on record to date from a current association membership of greater than 72,000.

Lisa M. Shulman, MD, professor, department of neurology, was elected to serve as secretary of the American Academy of Neurology.

Michael E. Winters, MD, FAAEM, FACEP, assistant professor, departments of emergency medicine and medicine, is the recipient of the 2009 national young educator of the year award from the American Academy of Emergency Medicine (AAEM). The award, recognizing outstanding contributions to the AAEM through work on educational programs, was presented to Winters at the academy's 15th annual scientific assembly in Phoenix in March 2009.



Lisa M. Shulman, MD

Awards & Honors



Kevin Ferentz, MD

Kevin Ferentz, MD, associate professor, department of family & community medicine, received a special recognition award from the Maryland Academy of Family Physicians at its annual meeting in June 2009 in

Ocean City, Md. The award was in recognition of Ferentz's steadfast dedication and hard work throughout his 20-plus years of service to the organization in every major capacity of leadership.

Robert J. Habicht, '04, was recipient of the 2009 Theodore E. Woodward, MD Faculty Prize in Medicine. Habicht is assistant professor of medicine in the division of general internal medicine, and was honored



Robert J. Habicht, '04

for exemplary teaching and patient care. The endowed award was created through the generosity of the Woodward family, alumni, faculty, and friends after the July 11, 2005, passing of **Theodore E. Woodward, '38**. He served on the Maryland faculty from 1948 to 2003 and was chairman of the department of medicine from 1954 to 1981. Woodward is remembered as a superb teacher, master clinician, distinguished scientist, and caring physician.

Olga B. Ioffe, MD, was recipient of the 2009 Harlan I. Firminger, MD Faculty Teaching Prize in Pathology. Ioffe The teaching award was endowed in the department of pathology by **Wilson Heefner, '60**, to express gratitude for the high quality of education he received in medical school. It is presented annually for excellence in teaching. In 2009, Ioffe received one of the student council faculty pre-clinical awards for excellence in teaching.

Laura Pimentel, MD, clinical assistant professor, Department of Emergency Medicine, is

the recipient of the 2009 Emergency Physician of the Year Award from the Maryland State chapter of the American College of Emergency Physicians. The award was presented at the organization's annual educational conference, held in Baltimore in April 2009.

E. Albert Reece, MD, PhD, MBA, vice president for medical affairs and dean of the medical school, was selected to receive the prestigious Marcus Garvey Universal Negro Improvement, or UNIA, Award for his outstanding and dedicated services to the Baltimore community at-large. Reece will receive the award at the Jamaican association of Maryland's annual Jamaica Independence Ball, held under the auspices of Anthony Johnson, Jamaican ambassador to the United States.



David W. Scott, PhD

David W. Scott, PhD, professor, departments of surgery and microbiology & immunology, and center for vascular and inflammatory diseases, received the 2009 scientific achievement award from the American

Association of Pharmaceutical Scientists, presented at its national biotechnology conference in Seattle in June 2009. Scott's award reflects the contributions he has made by developing a gene therapy model to eliminate undesirable immune responses in a range of diseases such as type I diabetes, multiple sclerosis, uveitis and hemophilia. He and his collaborators developed fusion proteins comprised of an immunoglobulin molecule with target proteins in these diseases. Importantly, they recognized that the immunoglobulin contained regions could reduce these aberrant immune responses. Application of these proteins in disease models and to the development of safer therapeutics is continuing.

Events, Lectures & Workshops

Brian Berman, MD, professor, department of family & community medicine, and director, center for integrative medicine, and **Lixing**

Lao, PhD, professor, and **Elizabeth Kimbrough, PhD**, assistant professor, both also from the department and center, presented "Challenges of Research in Traditional Chinese Medicine Herbs" at the North American Research Conference on Complementary and Integrative Medicine in Minneapolis in May 2009. At this same conference, Kimbrough presented "Bravenet: The First Practice-based Research Network in Integrative Medicine" and "Mindfulness-Based Interventions for Trauma Survivors."



Brian Berman, MD



Brian J. Browne, MD

Brian J. Browne, MD, professor and chair, department of emergency medicine, was the keynote speaker at the International Emergency Medicine Symposium sponsored by Peking Union Medical College in Beijing, China,

in April 2009. His lecture was entitled "Emergency Medicine in the USA: Past, Present and Future." **Y. Veronica Pei MD, MEd, MPH**, assistant professor, department of emergency medicine, also an invited lecturer, presenting "The Initial Assessment of a Trauma Patient" and "Focused Assessment with Sonography in Trauma (FAST)."

Kenneth H. Butler, DO, associate professor, department of emergency medicine, and **Robert L. Rogers, MD**, assistant professor, and **Michael E. Winters, MD**, assistant professor, and both from the departments of emergency medicine and medicine, were invited speakers at the 2009 International Symposium on Emergency Medicine, sponsored by Sociedad de Emergencias. The conference was held in Buenos Aires, Argentina, in May 2009. Butler presented an "Update on RSI Pharmacology" and discussed "Current Strategies in Intubation." Rogers presented lectures entitled "Severe Hypertension in the ED: Don't Just Do Something, Stand There!" and "Aortic Dissection: What You Don't Know Might Kill Your Patient!" and Winters delivered presentations entitled "Critical Care 2008: The Articles You've Got to Know" and "Pearls

and Pitfalls in Managing the Critically Ill ED Patient."

Kevin Chen, PhD, MPH, associate professor, department of family & community medicine and center for integrative medicine, presented "Meditative Therapies for Addiction Treatment: Theory, Research, and Clinical Application" at the North American Research Conference on Complementary and Integrative Medicine in Minneapolis in May 2009.



Kevin Chen, PhD, MPH



Margaret Chesney, PhD

Margaret Chesney, PhD, professor, department of medicine, and associate director, center for integrative medicine, presented "Mind-Body Interventions: Is there Power in Positive Thinking?" at the North American

Research Conference on Complementary and Integrative Medicine in Minneapolis in May 2009. Also in May, Chesney presented "Medical Psychology Meets Complementary, Alternative and Integrative Medicine: Is there Common Ground?" at the Uniformed Services University of the Health Sciences in Bethesda, Md.

Delia Chiaramonte, MD, clinical assistant professor, department of family & community medicine and center for integrative medicine, presented "Navigating the Healthcare System Effectively" at the Alzheimers association conference: "Dementia at Midlife" in Baltimore in May 2009.

The following faculty members in the department of diagnostic radiology & nuclear medicine presented reports of their research and led educational reviews at the European Congress of Radiology in Vienna, Austria, in March 2009: **Thorsten Fleiter, MD**, assistant professor, presented "Real Time CT-guided EP Procedures: Technique, Current Development and Future Perspective" recognized with a "New Horizons in Radiology" designation by conference attendees. The presentation was co-authored with **Timm-**

faculty

Michael Dickfeld, MD, assistant professor, department of medicine, who was a co-author on Fleiter's presentation entitled "Temperature Monitoring in Ablation Procedures Using Computed Tomography;" **Kathirkama Shanmuganathan, MD**, professor, conducted a mini course in "Advances in CT and MR Imaging in Major Trauma;" **Gregg Zoarski, MD**, associate professor, presented "Biomechanics of Vertebroplasty and Kyphoplasty."



W. Florian Fricke, PhD

W. Florian Fricke, PhD, research associate, department of microbiology & immunology and institute for genome sciences, presented "The Increasing Availability of Antimicrobial Resistance Determinants:

Implications for Pathogen Evolution and Bio-preparedness" during a plenary session on antimicrobial resistance at the 7th Annual ASM Biodefense and Emerging Infectious Diseases Research Meeting in Baltimore in February 2009.



Joyce Frye, DO, MBA, MSCE

Joyce Frye, DO, MBA, MSCE, clinical assistant professor, department of family & community medicine and center for integrative medicine, presented "Homeopathic Medicine: A Safe and Effective Therapeutic Category in Obstetrics?" at the

American College of Obstetricians and Gynecologists in Washington, DC, in May 2009.

Amy Fulton, PhD, professor, department of pathology and program in oncology, was an invited speaker at the World Cancer Congress in Beijing, China, in June, 2009. Fulton presented "The Role of the Cyclooxygenase-2 Pathway in Cancer Metastasis."

James S. Gammie, MD, associate professor, **Stephen T. Bartlett, MD**, Barbara Baur Dunlap Professor of Transplant Surgery and chair, and **Bartley P. Griffith, MD**, professor, all from the department of surgery, presented "Small-Incision Mitral Valve Repair: Safe, Durable and Approaching Perfection" at the American Surgical Association annual meeting

in Indian Wells, Calif., in April 2009. Additionally at the conference, Bartlett and Griffith, along with **David G. Neschis, MD**, associate professor, **William R. Flinn, MD**, professor, and **Thomas M. Scalea, MD**,

Francis X. Kelly Professor of Trauma Surgery, all from the department of surgery, presented "Endograft Repair of Traumatic Aortic Injury—A Technique in Evolution." **Michael J. Makley, MD**, assistant professor, department of neurology, gave an invited presentation on "Brain Injury and Sleep Disorders" for the U.S. Critical Illness and Injury Trials Group winter meeting in Nashville in February 2009. Additionally, Makley was a course instructor for "Ten Sequelae of Brain Trauma" at the 61st annual American Academy of Neurology Meeting in Seattle in April 2009.



Ivana Gojo, MD



James S. Gammie, MD

Ivana Gojo, MD, associate professor, department of medicine and program in oncology, gave an invited presentation entitled "Targeted Drugs and Combinations in Acute Leukemias: How Novel is Novel?" during a

"Leukemia, Myelodysplasia, and Transplantation Poster Discussion" at the American Society of Clinical Oncology annual meeting in Orlando in May 2009.

Amal Mattu, '93, associate professor, department of emergency medicine, delivered the keynote address at the Mid-Atlantic regional conference of the Society for Academic Emergency Medicine at Christiana Hospital in Newark, Del., in March 2009. The title of his talk was "Becoming the Leader That Others Will Follow: Lessons From the Great Minds Through the Ages." At the same meeting, **Fermin Barrueto, MD**, clinical assistant professor, department of emergency medicine, presented a talk entitled "How Does Selection of a Procedural Sedation Agent Affect Quality Measures in a Community Emergency Department?" and **Jeff Gerton, MD**, and **Esti Schabelman, MD**, both third-year residents in the department, presented the

results of their study "When is a Physician in Triage a Financially Viable Option?" Additionally, Mattu was the keynote speaker at the Continuing Concepts in Pre-Hospital Emergency Medicine Conference, held in Suffolk, Va., lecturing on the topics of "Emergencies in the Elderly Patient," "Modern Management of Cardiogenic Pulmonary Edema," and "10 Things You Must Consider in the Crashing Patient" as well as the keynote speaker at the 14th annual Emergency Medicine Conference of the British Columbia Medical Association Section of Emergency Medicine where he presented two lectures on advanced electrocardiography (ECG) interpretation. In addition, at the annual emergency medicine update, which is sponsored by North York General Hospital in Toronto, the largest emergency medicine conference in Canada, Mattu was the only U.S. representative out of its 37-member faculty. He conducted two workshops on advanced ECG interpretation and lectured on advanced cardiac cases and the approach to the moribund patient. All three of these conferences were held in April 2009.



Christopher Plowe, MD, MPH

Christopher Plowe, MD, MPH, professor, department of medicine, presented a seminar entitled "The Evolution of Drug Resistant Malaria" at the University of Pennsylvania Institute for Translational Medicine and Therapeutics in January 2009. He also chaired a meeting in Bangkok, Thailand, in March 2009, on the role of drugs in the global eradication of malaria as part of the Malaria Eradication Research Agenda (MalERA) project, funded by the Bill and Melinda Gates Foundation. In addition, Plowe presented "Application of Genomics to Evaluation of Malaria Vaccine Clinical Trials" during the malaria symposium of the National Foundation for Infectious Diseases' 12th annual conference on vaccine research in April 2009.

Feyruz Rassool, PhD, associate professor, department of radiology oncology and program in oncology, was an invited speaker at the European Hematology Association stem cell workshop in Cannes-Mandelieu, France, in April 2009. Rassool presented "ROS, DNA Damage and Repair in Leukemic Stem Cells."



Hervé Tettelin, PhD

Hervé Tettelin, PhD, associate professor, department of microbiology & immunology and Institute for genome sciences, presented "Bacterial Genomics: From Genomes to Pan-genomes and Vaccines" at the Kenya Medical Research Institute in Kilifi, Kenya, in December 2008.

Book/Textbook Publications

Jon Mark Hirshon, MD, MPH, FACEP, FACPM, associate professor, departments of emergency medicine and epidemiology & preventive medicine, is a contributing author to "The National Report Card on the State of Emergency Medicine," a state-by-state evaluation of the emergency care environment. Hirshon was a leader of the subgroups that evaluated and managed the data for this massive project, which was sponsored by the American College of Emergency Physicians. Maryland ranked fourth overall among the 50 states, based on assessment of five aspects of emergency medicine: access to care, disaster preparedness, patient safety, public health/injury prevention and medical liability. The report was published in the January issue of *Annals of Emergency Medicine*.

Richard F. Macko, MD, professor, and **Charlene Hafter-Macko, MD**, associate professor, both from the department of neurology. **Fred Ivey, PhD**, assistant professor, department of medicine. **Mark William Rogers, PT, PhD, FAPTA**, professor, department of physical therapy & rehabilitation science, and **Kathleen Michael, RN, PhD, CRRN**, assistant professor, department of organizational systems and adult health, University of Maryland School of Nursing, co-authored the textbook *Stroke Recovery & Rehabilitation*, January 2009, Demos Publishing.

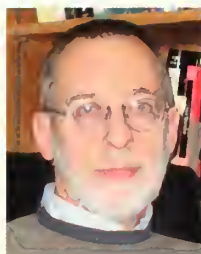
Donald E. Wilson, MD, MACP, dean emeritus of the University of Maryland School

of Medicine, has published a new motivational book detailing his rise through academic medicine to become the first African-American dean of a predominantly white medical school in the United States. The book, *Wilson's Way: Win, Don't Whine*, was co-authored by Cindy S. Spitzer. Wilson retired from his position as vice president of medical affairs and dean in 2006.



Donald E. Wilson, MD, MACP

Grants & Contracts



Bradley E. Alger, PhD

grant entitled "Training Program in Cellular & Integrative Neuroscience." The grant will provide training funds for six post-doctoral trainee slots.

Meredith Bond, PhD, professor and chair, department of physiology, received a five-year, \$1,764,043 competing renewal training grant from the National Heart Lung & Blood Institute for "Training Grant in Cardiac and Vascular Cell Biology." This renewal contains four pre-doctoral and four post-doctoral training slots.

Manhattan Charurat, PhD, MS, assistant professor, department of medicine and institute of human virology, received a four-year, \$2,867,893 grant from the National Institute of Allergy and Infectious Diseases for his work entitled "Acute HIV Infection and Pregnancy." Co-investigators and contributors on the grant include **William Blattner, MD**, professor, **Alash'Le Abimiku, PhD**, assistant professor, and **Jean Carr, PhD, MA, MPH**, associate professor, all from the department and institute.

Bradley E. Alger, PhD, professor, department of physiology, received a five-year, \$1,658,295 competing renewal from the National Institute of Neurological Disorders and Stroke training grant for his training

Dhan V. Kalvakolanu, PhD, professor, department of microbiology & immunology and program in oncology, has received a five-year, \$1,360,621 competitive renewal R01 grant from the National Cancer Institute for his work entitled "Cytokine Modulated Model Growth Inhibitory Mechanisms." The grant will focus on the role of GRIM-19, a novel tumor suppressor, in tumor development. Kalvakolanu discovered GRIM-19 in a genetic screen that he has employed to isolate tumor suppressor genes induced by Interferons.

Istvan J. Merchenhaller, MD, PhD, ScD, professor, department of epidemiology & preventive medicine, received a four-year, \$1.2 million grant from the National Institute of Aging for his work entitled "Novel Treatment of Menopausal Hot Flashes with an Exradiol Pro-drug."

Steven D. Munger, PhD, associate professor, department of anatomy & neurobiology, received a five-year, \$1.6 million grant from the National Institute on Deafness and Other Communication Disorders for his work entitled "Mechanisms of Alimentary Chemosensation."

Dave Pauza, PhD, professor, department of medicine, and assistant director, institute of human virology, received a four-year, \$1,238,776 grant from the National Cancer Institute for his work entitled "Mechanisms for Depleting Tumor Immunity in AIDS." Co-investigators and contributors on the grant include **Cristiana Cairo, PhD**, research associate, department of medicine and institute of human virology, and **Andrei Chapoval, PhD**, assistant professor, department of otorhinolaryngology-head and neck surgery and program in oncology.

Matthew C. Trudeau, PhD, assistant professor, department of physiology, received a five-year, \$1,875,000 research grant from the National Heart, Lung & Blood Institute for his work entitled "Molecular Physiology of HERG (KCNH2) Potassium Channels."



Matthew C. Trudeau, PhD

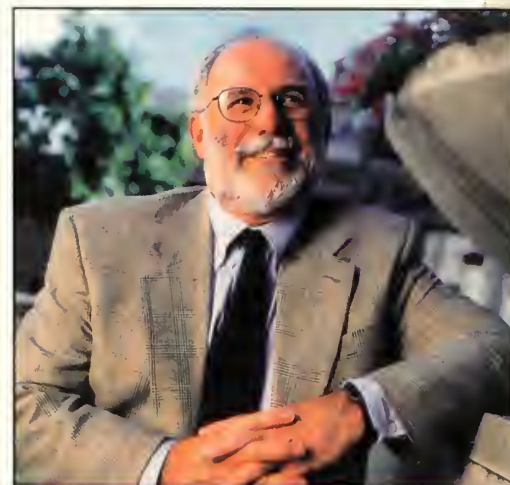
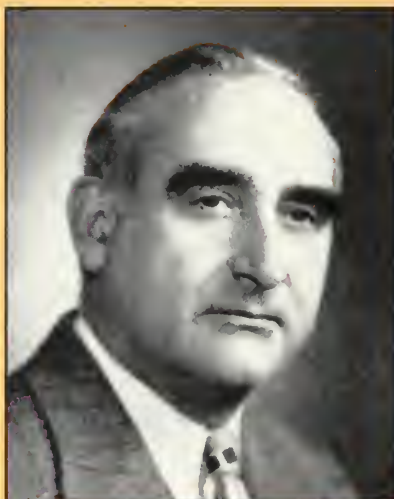
ON THIS SPOT
THE HONORARY DEGREE OF
DOCTOR OF LAWS
WAS CONFERRED UPON
REVOLUTIONARY WAR HERO
GENERAL LAFAYETTE
BY THE UNIVERSITY OF MARYLAND
OCTOBER 9, 1824

185 Years Ago

On October 9, 1824, the University of Maryland bestowed its first non-medical honorary degree—a doctor of laws—on Marquis de Lafayette during an elaborate ceremony in Anatomical Hall of the medical building (later known as Davidge Hall).

60 Years Ago

In 1949, a \$25 million legislative appropriation to improve the state's mental hospitals included a \$3 million earmark for the creation of a psychiatry department at Maryland. The appointment of professor and chairman went to Jacob E. Finesinger, MD, from Harvard Medical School and the staff at Massachusetts General Hospital. Finesinger pioneered the inclusion of psychiatric principles into the standard clinical history sought from patients in general medicine and surgery. He remained on the faculty until his death in 1959.



Myron M. Levine, MD

35 Years Ago

In 1974 a clinical research center for vaccine development was established at Maryland by Richard B. Hornick, MD, and Myron M. Levine, MD, providing facilities where new vaccines could be evaluated in community volunteers, a novel concept in that era. Two years later, in 1976, the University of Maryland Center for Vaccine Development was founded. It would become the world's largest and most diverse academic vaccine development enterprise.

recollections

A look back at America's fifth oldest medical school and its illustrious alumni

student activities



Photo by Mark Trice

The Class of 2011

Clinician Ceremony Marks Rotations for Class of 2011

One hundred fifty six students constituting the University of Maryland School of Medicine Class of 2011 are now well into their third-year rotations. The official send-off into the hospital wards and clinics was an elaborate student ceremony in Davidge Hall on July 2. **Robert Shin, MD**, assistant professor in the departments of neurology and ophthalmology & visual sciences, was the invited speaker, followed by the dean's address by **E. Albert Reece, MD, PhD, MBA**. Participants received gold pins to add to their white coats and recited a student clinician oath. The ceremony was officiated by **Donna Parker, '86**, assistant dean for student affairs.

Enjoying the pizza party were first-year students Christopher Stack, Timothy Pearson, and Andrew Tkaczuk

Class of 2013 Checks In

The Class of 2013, consisting of 165 members, reported to Davidge Hall for orientation on August 13. The three-day program included a presentations by **Richard Colgan, MD**, entitled "The Good Physician," **Leslie Robinson, MD**, entitled "The Doctor-Patient Relationship," plus a series of information sessions ranging from the introduction to the library to how to manage medical school financially. The final event, as always, was the MAA-sponsored pizza party in Davidge Hall and was underwritten by **Carolyn McGuire-Frenkil**, a member of the medical school's board of visitors. This year's class consists of 95 (58%) females, a majority that has existed since 1996.





Reforming Healthcare— in Russia

[ALUMNUS PROFILE]

In Russia, most physicians don't smile at their patients or pat them on the shoulder or stroke their hand, which was something Rictor did to show he cared.

By Bill Atkinson

Kenneth W. Rictor, '85

Kenneth W. Rictor, '85, models his life on a simple biblical passage: "Clothe yourself with compassion, kindness, humility, gentleness and patience."

Over the past three years, Rictor has done just that. He has left his comfortable home in Boonsboro, Md., and his bustling practice to help those in need.

Rictor, age 50, travels thousands of miles to remote regions of the Russian Federation to care for the poor and abandoned. They suffer from diabetes, hypertension, arthritis, thyroid conditions and alcoholism. "There are a lot of hurting people out there," he says. "It has changed my perspective on life; just how good we have it and how we have to give back."

Rictor is preparing to make his fourth humanitarian mission to Russia in November, only this time, in addition to treating patients, he will be working with the Russian Minister of Health from Samara—one of the country's largest cities located in the southeastern part of European Russia—to help establish an ethics society and develop ethical guidelines for the equitable treatment of patients. "They are looking for international cooperation," Rictor says. "To be trusted and to bring in our expertise is really huge."

According to Rictor, Russian doctors want reform. They are paid \$350 a month compared with the average worker who makes twice as much. Some doctors supplement their income by bribing patients; an ambulance ride or a prompt follow-up visit might require an under-the-table payment. They also face prison if a mistake leads to a patient's death. So, there is little incentive to report them.

It was the 2004 tsunami in Thailand and the 2005 hurricane in New Orleans that spurred Rictor into action. He called Doctors Without Borders, but they had all the physicians they needed. So he tried Agape Medical Center, an organization that treats Russians living in the most isolated and often desolate areas of the country. "I felt a pull to go out and help," Rictor says. "I wanted to go out of my comfort zone. I wanted to go some place where it was rugged."

The trips have been eye opening.

His first was to the town of Volgarch, a two-day train ride from Moscow, where he and 37 others stayed at a hospital. Some of the rooms were flooded while others were in disrepair. Rubber gloves hung to dry for a second use. Furnaces fired by coal generated heat. The streets were covered with nearly a foot of ice, and the only way to travel was either by reindeer and sleigh or in vehicles equipped with huge spikes on their wheels. "We were slipping like we had no traction underneath us," he says. "It was very stark. I couldn't tell where the people lived. I thought the buildings were abandoned. It was desolate."

Most of the patients were women and children since the men worked in other cities during the week. Some 54 percent of the men were alcoholics. "We didn't need to understand the language to communicate," Rictor says. "They were overwhelmed with how we cared about them."

In Russia, most physicians don't smile at their patients or pat them on the shoulder or stroke their hand, which was something Rictor did to show he cared.

"It was amazing how many people would hug me," he says. "My gift of caring was tremendously healing. I said to a friend, 'People who have nothing appreciate everything. People who have everything appreciate nothing.'"

Rictor with a young patient during his 2007 visit to Murmansk

Since opening a practice in 1989, he has thrived on patients with a variety of needs, some whose medical issues have led him to diversify his practice.

During another mission, Rictor traveled to Murmansk, the largest city north of the Arctic Circle and a strategic Russian military installation. A college student traveling with the group took a picture of a military facility. Immediately, the group was arrested and taken by bus to a military police station. For five hours the physicians were held and in the end forced to pay a bribe. Rictor coughed up \$5.

Last year, he and four physicians traveled to Tashtagol in southern Siberia, a coal mining town, where they stayed with a local pastor. The physicians hopped into a van and traveled to nearby villages to offer care. In Kondoma, a village of about 340 people, the local honey-making business had died, and the villagers survived by growing their own food and raising cattle. "It looked like a town of shacks," Rictor recalls.

Rictor and his colleagues treated the entire population. One villager stored potatoes under her bed. A coal stove heated her house, but when Rictor entered the home he could see his breath. There were cracks in the windows and snow blew in through breaks in the door. She tried to keep warm at night by covering her mattress with coats. "It was crazy," Rictor says. "How could it get any worse? But people were surviving."

One of three children, Rictor grew up in Salisbury, Md. His father was an engineer with the telephone

company and his mother a housewife. Rictor


thought he wanted to become a doctor when he was five years old. One year on Christmas morning his parents gave him a doctor's kit and snapped a picture of their precocious son administering a thermometer to his brother. "It was prophecy," says Rictor.

By the time he was in sixth grade, Rictor volunteered at the local hospital transporting patients to their rooms or to radiology. He delivered X-rays and eventually learned to read them with the help of the radiologist. He worked Saturday and Sunday afternoons until he was in eighth grade.

After graduation from Maryland in 1985, he trained at Washington Hospital in Washington, Pa. Rictor focused on family practice because it offered variety, and he liked working one-on-one with patients. "Family medicine was ideal," he says. "For a broken bone, I set it. Surgery that needed to be done, I assisted. We spent gobs of time in the emergency room. It was hands on medicine. When I was on call at night, I was it. I just flew by the seat of my pants."

Since opening a practice in 1989, he has thrived on patients with a variety of needs, some whose medical issues have led him to diversify his practice. He is an expert on obesity and wrote a book on the stresses and strains faced by care givers. He conducts clinical

trials on new medicines for Alzheimers, and in 2006, Rictor opened the Laser Rejuvenation Center to treat people with pigment lesions, unwanted hair and unsightly veins. These activities bring in revenue and help finance Rictor's overseas missions.

Rictor is anxious about his upcoming Russian trip in November. "I've always wanted to do something to give back," Rictor concludes. "I want to take care of patients for the sheer sense of caring for people. This is the way medicine should be; it's a calling." 



In 2008 visiting an elderly patient in Tashtagol

advancement

Hales Endowed Professorship Honors Griffith

An investiture ceremony on June 10 recognized **Bartley P. Griffith, MD**, as the inaugural recipient of the Thomas and Alice Marie Hales Distinguished Professorship in Transplant Surgery. The Hales Family Foundation contributed \$2.5 million to establish the new professorship to express their appreciation for Griffith, who performed a life-saving double-lung transplant on Mr. Hales.

"It's a pleasure for us as a family to be able to honor someone as distinguished as Dr. Griffith," said Hales during his remarks. He had come with his wife, son and daughter from their home in Briarcliff Manor, N.Y., for the ceremony in Westminster Hall on the campus. "I've talked to a lot of thoracic surgeons, and every time I mention his name they would say, 'He's the best in the world; you couldn't have a better doctor.'" Then turning to Griffith, he said, "So on behalf of us and our children and our grandchildren, I want to thank you."

Griffith has been a professor of surgery at Maryland since 2001 when he arrived from the University of Pittsburgh. He is head of the division of cardiac surgery in the department of surgery chaired by **Stephen T. Bartlett, MD**.

"An endowed professorship is indicative of superior performance in the classroom, the laboratory and in the clinical setting," said **Dean E. Albert Reece, MD, PhD, MBA**, when presenting Griffith with a medal to acknowledge his endowed professorship. "In the world of aca-

demia, endowed professorships are a coveted and universally recognized accolade, signaling a colleague at the top of his or her field."

This is certainly true of Griffith, whose clinical work focuses on treating patients with the most severe forms of heart and lung disease and whose research interests are concentrated on heart and lung transplantation and advancing the use of artificial organs. Griffith has published more than 500 papers and has been continuously funded by the National Institutes of Health as a principal research investigator since 1988. His research funding has paved the way for the development of an artificial lung and a pediatric heart pump, as well as a study to reduce muscle scarring after heart attacks.

Griffith expressed his personal appreciation of Mr. Hales. "You have been a wonderful example of a patient who takes very good care of himself," he said. "And what you are doing for this university truly can never be repaid. This will go a long way in establishing us as a center for continuous innovation and patient care."

The professorship is open-ended, meaning it will accept further donations beyond the \$2.5 million funded by the Hales Family Foundation. For more information please contact Tierra Dorsey at (410) 706-2846.

Endowed professorships are established with gifts of \$1.5 million. Distinguished professorships and endowed chairs are set at \$2.5 million. The school has a total of 49 such endowed faculty positions. 🏛️



The Hales family from left: Alice Marie Hales, Lianne T. Shaw, Bartley Griffith, MD (Center), William P. Hales, and Thomas E. Hales

To Index, or Not to Index

A popular recent question we have been hearing from clients is, "Should I use index funds or active managers for my investments?"

To review, passive investment management attempts to replicate, as closely as possible, the return on an index (for example, the S&P 500®) typically by purchasing the majority or all the securities in an index in the same weighting as they are held in the index. Meanwhile, active investment management does not attempt to replicate an index, but rather purchases securities in different weights than the index in an attempt to outperform an index or some other benchmark.

PNC's view is that there is no objective way or need to officially declare active or passive investing the winner. Investors need only look at the marketplace to see that both active and indexed investment products have found a place in investment portfolios. We believe that an investor should purchase an investment product with a goal or purposes in mind, taking into account the different costs and benefits inherent in each. Some investors may be better served by active investments, some by passive investments, and some by a mixture of both.


Still, many people are asking if now is the time to increase exposure to active management. History has shown that the market tends to be more volatile when nominal GDP is low. With nominal GDP expected to be low for some time, increased volatility should, in theory, provide more opportunities active managers can take advantage of. Others argue that with valuation spreads as wide as they now are, the opportunities for active managers are larger. In fact, Empirical Research Partners has compiled data back to 1963, and this does seem to be the case in terms of the percentage of general equity funds outperforming the S&P 500.

Unfortunately, this indicator seems to be a relatively imprecise timing tool. It probably has better explanatory power than it does predictive power of what will happen in any given year. While we are sympathetic to these arguments that now is the time to increase exposure to active management, we'll resist their siren song. We continue to hold the view—much like when an investor considers an asset allocation—that the investor's primary focus should be on individual goals and risk tolerance.

Taking this into account, a useful metric might be to consider how much tracking error, if any, an investor can stomach. Tracking errors are typically discussed in

terms of an annual percentage number—for example, a portfolio might have a tracking error relative to its benchmark of 2% per year. It is important to note this can apply to both upside and downside differences relative to the benchmark, so in the previous example, the portfolio's potential is to outperform or underperform a benchmark by 2%.

We would argue that underperformance (negative tracking error) at times is in fact the necessary byproduct of a robust active investment management process. One cannot expect outperformance over longer time periods without periods of underperformance. For that reason, it all comes back to how much tracking error an investor can stomach, as determined by their individual goals and risk tolerance.

For more on this and any other topic, please feel free to give me a call. You can also visit us at pnc.com/wealth-management. 



This column is prepared by Doug Holthaus, vice president and relationship manager at PNC Wealth Management. He can be reached at 410-237-4590 or douglas.holthaus@pnc.com.

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1930s

1934: Edward S. Kallins of Bradenton, Fla., turned 100 on August 25. **1938:** Joseph M. George of Las Vegas is doing well and extends greetings to classmates. **1939:** Oscar Hartman and wife Lee of Sarasota, Fla., recently celebrated their 70th wedding anniversary.

1940s

1943D: J. Roy Guyther of Mechanicsville, Md., has published seven books on local history. **1947:** Robert R. Hahn of Easton, Md., continues living in Florida six months each year. **1949:** Jordan M. Scher of New York City reports that his youngest daughter recently married and gave birth to son Elijah. His second daughter Jo, at age 47, returned to nurse's training and graduated first in her class. She now works for the health department in Pueblo, Colo. Scher's two other daughters Jan and Jill are also doing well.

1950s

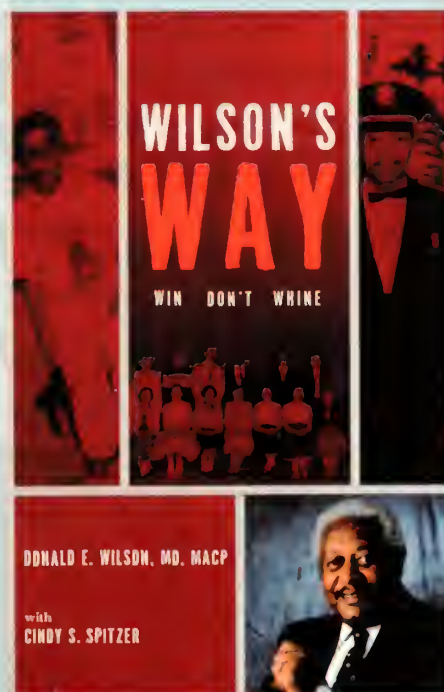
1950: Harry H. Bleecker Jr. of San Pedro, Calif., recently ruptured his right quadriceps and tendon, and is now watching paint peel and grass grow. But, he is looking forward to his 60th reunion in spring! **Miriam S. Daly** of Albion, Mich., continues coordinating monthly American Red Cross blood drives and is busy with her 11 grandchildren and many other community activities. **Frank T. Kasik Jr.** of Baltimore celebrated his 91st birthday in June. He enjoys his 14 grandchildren and 12 great-grandchildren. For the past 13 years Kasik has lived at Oak Crest Retirement Community. **1951:** Benjamin D. Gordon of Yarmouth Port, Mass., remains active with contract work for a medical headhunter and occasionally covering a clinic at a nearby hospital. Wife Ellen has had seven surgeries in six years for four different ailments; so he remains a full-time caretaker. He still gets to do some leisure reading, but there is no time for golf. **1952:** Timothy D. Baker of Cockeysville, Md., continues research, advising, and consulting in the department of international health at the Johns Hopkins School of Public Health. **Richard A. Sindler** of Towson, Md., continues doing CT scanning, and wife Vicki is selling residential

real estate. **1954:** David A. Levy of Paris, France, although retired, continues to consult and to edit medical documents. **1956:** Mathew H. M. Lee of New York City delivered the keynote address at the annual Chinese Medical Doctor Association and Chinese Physiatrist Association meeting in Hangzhou, China, in August. His presentation was entitled "The Evolution of Physical Medicine and Rehabilitation in the United States as a Specialty and Our Relationship to China." Lee, the Howard A. Rusk Emeritus Professor of Rehabilitation Medicine at NYU School of Medicine, received a special award for his training of Chinese doctors in rehabilitation medicine and for the establishment of the first rehabilitation center in Beijing with Dr. Rusk in 1982. **1957:** Ray A. Wilson of York, Pa., continues working full-time as vice president of medical affairs for Nursing Home Corp., a family-owned assisted living retirement community for 1,000 residents. **1958:** Bruce N. Curtis of Thatcher, Ariz., reports that after three months he finally

recovered from viral pneumonia and is back on the MCGraham Regional Medical Center's historical committee. He and wife LaDawn recently celebrated their 50th wedding anniversary. **Charles E. Silberstein** of Baltimore is working two mornings a week at the Kennedy Krieger Institute after retiring June 30 from the full-time orthopaedic surgery faculty at Johns Hopkins.

1960s

1960: Julio E. Figueroa and wife Myriam of San Antonio, Tex., celebrated their 50th wedding anniversary with family and friends on June 12. **Jerrod Normanly** of Fair Oaks, Calif., reports all is well with his family. He is looking forward to the 50th reunion in spring. **1961:** Robert A. Fink of El Sobrante, Calif., reports that youngest daughter Robin graduated from Reed College in May with a degree in anthropology and spent her third summer in Ecuador administering a health care program on behalf of a non-profit organization based in Italy. Fink practices neurosurgery in Berkeley, and he recently



Wilson's Way

Donald E. Wilson, M.D., M.A.C.P. served as Maryland's dean from 1991 to 2006. His autobiography is now available for purchase on the MAA website: www.medicalalumni.org (click "Momentos"), or by mailing \$33.99 (includes shipping) to: Medical Alumni Association, 522 W. Lombard Street, Baltimore, MD 21201-1636.

Profits benefit the Wilson Scholarship Fund.

recovered from the H1N1 flu complicated by pneumonia. **David L. Rosen** of San Rafael, Calif., reports that Rachel, his youngest child, has started working toward her post-doctorate degree in Stockholm, following completion of her PhD in physics from NYU. **1963: Kenneth G. Magee** of Dunwoody, Ga., reports that he and wife Barbara enjoy their grandchildren, now ages 14, 12 and eight. **1964: Mark E. Krugman** of Newport Beach, Calif., in addition to practicing plastic surgery in Orange County, is engaged in a pro-bono program of hair restoration for child burn victims in conjunction with Shriners Children's Hospital in Los Angeles. **Samuel Muher** of Owings Mills, Md., is enjoying life with wife Susan and their three children and six grandchildren since retiring from his OB/GYN practice. **Richard G. Shugerman** of West Palm Beach, Fla., received the American Academy of Ophthalmology Secretariat Award. He is chief of ophthalmology at Good Samaritan Hospital and teaches fourth-year medical students at the University of Miami School of Medicine Bascom Eye Institute. **1966: John E. Steers** of Westminster, Md., volunteers in primary care at the Access Carroll Free Clinic since retiring from practice four years ago. Son **John A.**, '88, is a general surgeon at Carroll Hospital Center. **1967: Fred Nelson** of Dearborn, Mich., is associate program director and research director for the osteoarthritis center in the department of orthopaedics at Henry Ford Hospital. **1968: Jon M. Valigorsky** of Pittsfield, Mass., retired in July 2008. **Charles S. Samorodin** of Ruxton, Md., reports that granddaughter Sasha is at Cornell Vet School after graduating Magna Cum Laude in three years from Cornell University. Daughter Randi received a PhD in education and is currently a dean at a university near Boston. **1969: Constance L. Holbrook** lives in the Sun City at Hilton Head, a retirement community in South Carolina. She enjoys singing in retirement, both locally with her church and symphony and also with the Suntones King & I chorus. In January 2010, she will be in Rome singing during a Papal Mass at the Vatican.

1970s: 1970: Kenneth M. Hoffman of Severna Park, Md., reports that son Kevin is the CFO for Roots Market in Clarksville. Hoffman is enjoying semi-retirement, working three days a week at his private pediatric practice. **Charles "Buz" Marek** of Middle River, Md., has been enjoying retirement since July 2008. **Charles I. Weiner** of Baltimore is working part time and enjoys spending hours doting on his five and soon-to-be six grandchildren. From home he shuttles between the beach and Chicago. **1972: John A. Niziol** and wife Barbara of Wayne, N.J., report that their two-year-old granddaughter Katy might one day attend medical school at Maryland. **Deborah M. Shlian** of Boca Raton, Fla., is co-author of *Dead Air*, a thriller expected to be released December 7. **1973: Murray A. Kalish** of Baltimore is serving as president of MedChi—the State of Maryland's medical society. **Charles B. Watson** of Easton, Conn., reports that son Ivan is working for CNN International and received some air time during the recent elections in Iran. At times he is also seen on the domestic side of the network. Watson welcomes classmates to visit him and his wife at home or at Bridgeport Hospital, now a Yale-New Haven Health System member institution. **1974: Harry S. Stevens** of Baltimore retired from private practice on May 31. **David Zisow** of Pikesville, Md., established a mid-career training program designed to allow OB/GYNs in private practice to acquire training and experience in the performance of the latest minimally invasive GYN procedures. These include advanced laparoscopic and pelvic reconstruction procedures now replacing traditional open abdominal surgeries. The program was established with the assistance of the division of minimally invasive surgery at Northwest Hospital Center. **1975: Linda S. Bartram** of Bremerton, Wash., has been sewing quilts for her two grandchildren since retirement two years ago. **Louis Fox** of Dallas is surgical director of the Advanced Lap-Band Weight Loss Center. His oldest daughter Michelle graduated from Vanderbilt University in May, and daughter Alyssa is

attending Southern Methodist University. **Thomas F. Krajewski** of Towson, Md., was named team leader in a federal older adult TCE grant program. **Michael Stewart** of Seattle has been running his own consulting practice for three years since retirement, and loves it! **1976: Damian E. Birchess** of Glen Burnie, Md., was married to Patricia Centineo in June 2008. **Richard F. Timmons** of Belleair, Fla., is a diplomate in the American Board of Clinical Lipidology. He and wife Bonnie report that sons Chris and Brian are married. Timmons continues working at the Diagnostic Clinic and enjoys hiking, biking, and racketball. **1977: Rona B. Eisen** of Bethesda, Md., is practicing part-time GYN and is training for two fall marathons. **Marlene Hayman** of Rockville, Md., reports that daughter Katie is a first-year medical student at Maryland following graduation from Johns Hopkins University in May. Her second daughter Maura is a sophomore at Towson University. Hayman is in her 28th year as an internist with Kaiser Permanente. **1978: Franklin M. Douglass** and wife Julie of Conroe, Tex., recently celebrated their 32nd wedding anniversary. Douglass is cutting back from his general ENT practice and is in need of a partner. **Stephen Valenti** and **Elizabeth Kingsley** of Annapolis are celebrating their 26th anniversaries in their respective cardiology practices. Valenti's practice recently changed names to Cardiovascular Specialists of Central Maryland, while Kingsley is with Cardiology Associates, with offices in Annapolis, Kent Island, Bowie, Olney, and Washington, D.C. **Bruce E. Weneck** of Hagerstown, Md., reports that daughter Margot has enrolled in a nursing school accelerated program at Thomas Jefferson University in Philadelphia for a second BS degree. She received her first degree in psychology from The College of Charleston. **1979: Max D. Koenigsberg** of Chicago is practicing clinical ER at a level I trauma center, after 25 years of public service as an EMS medical director. **William O. Richards** is professor and chair of the department of surgery at the University of South Alabama College of Medicine. Prior to his appointment at USA, Richards was Ingram Professor of Surgical

Sciences at Vanderbilt University School of Medicine and director of both laparoendoscopic surgery and the Vanderbilt Center for Weight Loss.

1980s: **1980:** Roger J. Robertson of Chambersburg, Pa., climbed Mt. Kilimanjaro with sons Roger Jr. and Thomas last August 2008. **Robert L. Schiff** of Aiea, Hawaii, reports that daughter Teresa is a first-year medical student at the University of Hawaii, following graduation from USC and two years participating in Teach for America. **Phuong D. Trinh** of Rockville, Md., reports that his internist brother **Frank**, '99, has joined him in practice. **Emily Ulmer** of Davidson, Md., opened a new practice in Annapolis on July 6. **1982:** **Charles T. Lucey** of Portland encourages classmates to look him up when in the area. **Harry S. Strothers** of Roswell, Ga., is the Sarah and William Hambrecht Chair and professor of family medicine at Morehouse School of

Medicine. **1983:** **Milton S. Sniadach Jr.** of Englewood, Colo., reports that he and Jessica toured China in May, visiting the Great Wall and Terracotta Warriors. **1984:** **Dale R. Meyer** of Voorheesville, N.Y., enjoyed seeing everyone at the reunion last spring. He's looking forward to the 30th in 2014. **Martin L. Schwartz** of Irondale, Ala., reports that son Justin is a pediatric resident at Children's Hospital in Birmingham, son Adam is an assistant professor of film at the University of Alabama, and son Brandon is a graduate student in public health at the University of Alabama at Birmingham. Schwartz and wife Elba recently celebrated their 30th wedding anniversary. **1985:** **Allen L. Dollar** of Atlanta is on the faculty at Emory University School of Medicine and chief of cardiology at Grady Memorial Hospital. **Michael J. Hollowell** of Sewell, N.J., reports that he continues biking, most recently in Switzerland and Singapore. **Thomas B. Johnson** reports from home in Exeter, N.H., that he is alive

and well. **Marc A. Kaufman** of Tampa, Fla., reports that son Jacob graduated from Wake Forest University in May, and daughter Taylor is a freshman at Florida State University. **Mark A. Taylor** of Hollidaysburg, Pa., retired due to Parkinson's Disease. **1987:** **Elizabeth R. Hatcher** continues her private practice of psychiatry and medical psychoanalysis in Topeka, Kans. She volunteers for a local chapter of the Medical Reserve Corps, teaching classes on psychological first aid. Hatcher reports that there is a shortage of psychiatrists in her town since the Menninger Clinic moved to Houston a few years ago. **1989:** **Jean M. Staples** of Haverstraw, N.Y., reports that she has recovered sufficiently from her auto accident injuries and last year made two research trips to the Noguchi Memorial Institute of Medical Research in Ghana. Staples works for the Johns Hopkins Bloomberg School of Public Health and is awaiting results from a pending grant application to continue research on the association of schistosomiasis and bladder cancer in Africa. Three papers have been published on the subject.

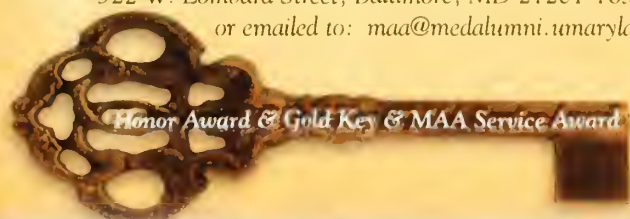
1990s: **1990:** **Margaret A. Flowers** of Sparks, Md., is a congressional fellow for Physicians for a National Healthcare Program. **1992:** **Ronald Rakowski** and wife Lisa continue living with their children in Frederick, Md. Ron is chairman of the emergency department and Lisa works half to three-quarters time in the pediatric center. **Lawrence Seidan** of Atlanta reports that his general neurology and epilepsy practice continues to thrive. **1994:** **Jay Penafiel** and wife Elise, a 1999 dental school alumna, of Crownsville, Md., proudly announce the birth of Joseph Jay, born October 1, 2008. He joins older sisters Isabella, age eight and Christina, age five. **1995:** **Sanford Katz** of Shreveport, La., was delighted with the appointment of **Robert Barish, MD** as chancellor of the Louisiana Health Sciences Center. Barish is a former associate dean for clinical affairs and professor of emergency medicine at Maryland. **Kevin C. Wilson** of Westwood, Mass. spends 80 percent of his time editing pulmonary

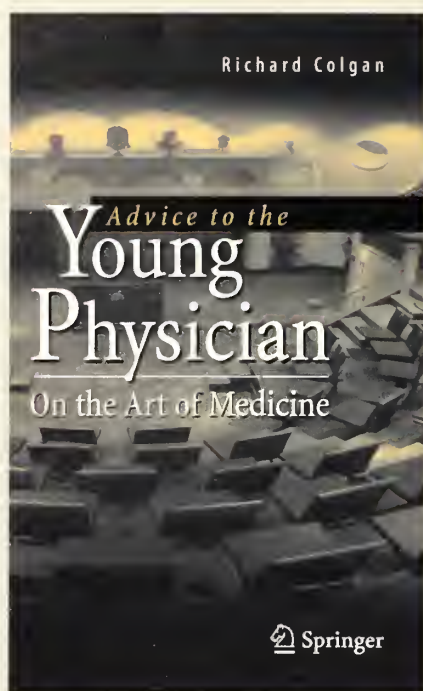
CALLS FOR

2010 Awards Nominations!

Alumni, faculty, and friends are invited to send in nominations for two MAA-sponsored awards by November 1, 2009. The Honor Award & Gold Key is presented to a living graduate based on outstanding contributions to medicine and distinguished service to mankind. Factors considered in the selection process include: impact of accomplishments; local, national, and international recognition; support letters, and publications. The Medical Alumni Association Service Award is given to an individual who has provided outstanding service to the Association and Medical School. The awards will be presented during the Reunion Recognition Luncheon on Friday, April 30, 2010. Letters of nomination for both awards must include a curriculum vitae and should be addressed to:

Joseph Martinez, '98,
Chair, Awards Committee, Medical Alumni Association
522 W. Lombard Street, Baltimore, MD 21201-1636
or emailed to: maa@medalumni.umaryland.edu





Advice to the Young Physician

Written by Richard Colgan, MD, *Advice to the Young Physician* reveals how to make the transition from technician to healer as taught by some of medicine's greatest teachers. Colgan is an associate professor at the University of Maryland School of Medicine and director of undergraduate education in the department of family and community medicine.

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critical care, and sleep content for *Up To Date*, the official education program of the American Thoracic Society. The remaining 20 percent is caring for patients and teaching evidence-based medicine at Boston University Medical Center. He is married with six-year-old twin sons. **Scott**

Winiecki and wife Jennifer of Churchville, Md., celebrated the birth of Wendy, their second, in January. She joins sister Alexandra, age three. **1996: Monica Sarang** of Los Angeles extends congratulations to her mother, who recently retired from the University of Maryland. A registered

nurse for more than 40 years, she taught Sarang more about medicine and serving people than any medical textbook. **1997: Alicia D. Braun** of Washington, D.C., practices dermatology with her father and siblings. She and her husband welcomed their second child, Robert, in November 2008. Braun reports that they are quickly running out of room in their condominium.

Heidi Ginter Shah and husband Nilesh of Shrewsbury, Mass., proudly announce the birth of daughter Jordan, their third, on June 21. **1999: Lindiwe Greenwood** of Laurel, Md., is celebrating her second year as owner of Renaissance Primary Care in Columbia. **Mallory Williams** of Shreveport, La., presented "Strategies of Hemostasis from the Battlefield" in July at the annual meeting of the National Medical Association in Las Vegas.

2000s **2000: Tamara L. Burgunder** of Baltimore is looking forward to seeing classmates at the 10th reunion in spring! **Joe Herman** of Baltimore married Amy Eckhout in Cadillac, Mich., on July 25. Herman is a radiation oncologist at Johns Hopkins, and his wife is a physician's assistant at Franklin Square Hospital. **2001: Darren Feldman** of New York City received the 2008 Paul Sherlock Housestaff Teaching Award in the department of medicine at Sloan Kettering Cancer Center, recognizing the highest level of dedication to teaching. Feldman is an as-

The Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support employee salaries as well as general office expenses to maintain the alumni data base; production of the quarterly *Medicine Bulletin* magazine; social events for alumni and students (including the annual Reunion); administering the revolving student loan funds; and overseeing conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

sistant attending in the genitourinary oncology service. **Teresa Kulie** of Madison, Wis., is faculty advisor for the University of Wisconsin Family Medicine Interest Group, as well as faculty councilor for AOA. **Laura W. Laffineuse** of Parkland, Fla., has been working at a maternal fetal medicine private practice in Coral Springs since September 2008. **Kathy J. Weishaar** and husband Robert Rice of Finksburg, Md., announce the birth of Zachary Kyle on December 8, 2008. **2002: Matthew Keysor** and wife Beth announce the birth of Laura Beth on April 11. Keysor is currently stationed at Ramstein Air Base in Germany providing medical care to military dependents. **2003: Rachel Hartman** and husband Iramu of Dallas proudly announce the recent birth of their third child—a son—in May. He joins their two-year-old daughter and one-year-old son. **Milford H. Marchant** has relocated to the Annapolis area and has joined Bay Area Orthopaedics & Sports Medicine. An orthopaedic surgeon, Marchant is specializing in sports medicine, arthroscopy, and shoulder reconstruction. **Jill Rathyen** and husband George of Summit, N.J., welcomed Cooper, their second boy, in September 2008. Rathyen continues working in the ER at Overlook Hospital while her husband started his own practice. **2004: Allison K. Hobelmann** and husband **Todd**, '03, of Baltimore welcomed the arrival of daughter Cassidy Paige on August 3. **2005: Alexandra D. Bentley** of Durham, N.C., reports that son Jackson is a precocious five-year-old, while daughter Gretchen Elizabeth is one. Bentley completed her pediatric residency at Duke over the summer. **Thompson Kehrl** is living and working in York, Pa., following completion of an emergency ultrasound fellowship in Cleveland. **2006: Naomi Feiman** and husband Daniel Sarko of Baltimore proudly announce the birth of Shira Lily, their first, on May 14. **Leah C. Jones** of Atlanta completed her internal medicine residency at Emory University. **Jonathan King** and **Daniela Morato** are married and living in Los Angeles. King continues his general surgery training at UCLA, while Morato has recently started an emergency medicine residency at USC. **Mark Schneyer** of Charlottesville, Va., married Maytal Mittelman on April 5. **Pamela Winterberg**, husband Bill, and four-month-old son Daniel have returned to Dallas for Winterberg's pediatric nephrology fellowship at the University of Texas Southwestern. **2007: Megan Nizio Alcock** is serving an internal medicine residency at Tufts University in Boston.

Faculty: **J. Michael Plaut** and wife Judy live at their beach house on Topsail Island, N.C. Plaut maintains a part-time practice and is teaching the human sexual behavior course at the University of North Carolina Wilmington.

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Remembered

Sylvan Frieman, '53

The school of medicine and University of Maryland Baltimore (UMB) lost one of their most loyal supporters on

August 22 with the passing of **Sylvan Frieman, '53**. His roles included clinical associate professor in the department of obstetrics, gynecology, and reproductive sciences, captain for his medical school class, president of the Medical Alumni Association, chairman of the medical school board of visitors, and officer for the UMB Foundation.

Born and raised in Baltimore, Frieman attended Baltimore City College and the University of Maryland College Park. He enrolled at the school of medicine as a member of the class of 1953. Upon graduation, he interned at D.C. General Hospital in Washington, D.C., followed by two years of service in the U.S. Air Force stationed in Ohio. It was in Ohio when he decided on obstetrics and gynecology as a specialty. Discharged with the rank of captain, Frieman returned to Baltimore for a three year OB/GYN residency at Lutheran Hospital, and then began in private practice.

Frieman was a senior attending at Sinai, Church Home, Franklin Square, and Harbor hospitals and served as medical director for The Central Maryland Surgery Center. He was an instructor at Lutheran Hospital of Maryland School of Nursing and Church Home & Hospital School of Nursing. In addition to his appointment at Maryland, he was a clinical assistant professor at Johns Hopkins University Hospital.

In the late 1990s, he sold his practice to Mercy Medical Center and began volunteering for a number of



Courtesy of University of Maryland, Baltimore

organizations including HomeCare for the Homeless and as a mediator in the Maryland attorney general's office. He also enjoyed travel and continued teaching residents and students at Maryland.

As class captain for 1953, Frieman organized reunions every five years, often times holding the gatherings at his house at no expense to classmates. He won election to the alumni board in 1989 and rose to become president in 1994. Medical school dean **Donald E. Wilson, MD, MACP**, invited Frieman to serve on the medical school's board of visitors in the early 1990s where he was elevated to chairman. He

also headed the medical school's successful New Century Medicine Campaign. A few years later Frieman was tapped by UMB president **David J. Ramsay, DM, DPhil**, to sit on the board of trustees of the university's new foundation.

In 1985, Frieman established an endowed perinatology research fund in the department of OB/GYN and two decades later added an endowed professorship. He was recipient of the 1998 Medical Alumni Association Distinguished Service Award and the 2006 University of Maryland Illustrious Alumni Award.

Frieman is survived by wife May, three children including **Moshay Cooper, '80**, son-in-law **Robert M. Cooper, '82**, two step children, 16 grandchildren including **Ahron Gedaliah Cooper, '09**, and seven great grandchildren. His was preceded in death by Doris, his first wife. 🏠

in memoriam

Luis R. Guzman-Lopez, '40
San Juan, PR.
April 15, 2009

Dr. Guzman-Lopez interned at University Hospital, School of Tropical Medicine of Columbia University in San Juan where he also received residency training in general surgery the following year. For the next seven years Guzman-Lopez trained in neurological surgery at Columbia University. He returned to Puerto Rico in 1950, serving as chief of the neurological surgery service and attending neurological surgeon at a number of hospitals including Bayamon District Hospital until 1968, San Juan City Hospital until 1972, and Presbyterian Hospital until 1974. He was also a consultant in neurological surgery for the U.S. Public Health Service (Marine Hospital) in San Juan from 1950 to 1965. From 1952 until 1972, Guzman-Lopez was professor of neurological surgery and chief of the section at the University of Puerto Rico School of Medicine. He was widely published. In 1967, during the 200th anniversary of the College of Physicians and Surgeons of Columbia University, Guzman-Lopez received a commemorative medallion for his medical accomplishments.

Edwin F. Wilson, '41
Fair Lawn, N.J.
September 6, 2008

After medical school graduation, Dr. Wilson served in the U.S. Army Air Corps, stationed in the European Theater during World War II. Metropolitan City Hospital and New York Polyclinic Hospital in New York City were the sites of his surgical training following the war. A general surgeon, Wilson served as chief of surgery at Central Suffolk Hospital in Riverhead, Long Island, for 35 years and was a member of the consulting surgical staff at Southampton Hospital. He enjoyed the outdoors, photography, and was an accomplished woodworker. Wilson is survived by two sons and three grandchildren. He was preceded in death by wife Marjorie.

Joseph G. Bird, '42
Biddeford, Maine
July 7, 2009

Dr. Bird received training in internal medicine at Maryland and Baltimore City Hospital, and received a PhD in pharmacology from Maryland in 1949. In 1954, he shifted from medical practice to research, and in 1959 co-authored *Essentials of Pharmacology*; a second edition was printed in 1963. From 1962 to 1969, Bird was director of the division of clinical pharmacology at Sterling-Winthrop Research Institute, and from 1970 to 1979 served as assistant director for Ciba-Geigy Chemical Corporation. He retired in 1980. Through reading he studied paleontology, archeology, cosmology, and physics. He enjoyed travel and was once an amateur radio operator. Bird is survived by wife Jeanne, three children, and several grandchildren.

Frank M. Shipley, '43D
Annapolis, Md.
July 22, 2009

Maryland was the site of Dr. Shipley's internship after graduation, and his internship in internal medicine was performed at Church Hospital in Baltimore. From 1946 to 1948, he served in the U.S. Army Medical Corps as a member of the occupational forces in Germany. In 1949, Shipley returned to Maryland and set up a practice of internal medicine in Annapolis. He was a co-founder of the original coronary care unit of Anne Arundel General Hospital where he also served as chief of medicine from 1952 to 1961 and president of the medical staff from 1977 to 1978. From 1973 to 1981, he was a member of the state's commission of medical discipline. Shipley enjoyed bridge, golf, and travel. Survivors include three daughters and four granddaughters. He was preceded in death by wife Dorothy.

Harry F. Rolfes, '44
Sarasota, Fla.
September 4, 2009

Dr. Rolfes served a rotating internship at Mercy Hospital in Baltimore and then entered the U.S. Army nearing the end of World War II. He was stationed in Tokyo and, as a captain, was appointed chief of contagious diseases for the Far East. After fulfilling his military commitment, Rolfes

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practiced general medicine and obstetrics in Lake Wales, Fla., before undertaking additional residency training in ophthalmology at the University of Alabama. From 1955 until retirement in 1988, he ran a private ophthalmology practice in St. Petersburg, served as chief of staff at St. Anthony's Hospital, and was an assistant clinical professor of ophthalmology at the University of South Florida School of Medicine. Rolfes was also a past president of the Florida Society of Ophthalmology. He enjoyed golf, reading, and travel and is survived by wife Evelyn, four children, 12 grandchildren, and 12 great-grandchildren. He was preceded in death by first wife Lucille and two sons.

Oscar B. Camp, '45
Boca Raton, Fla.
July 4, 2009

Upon graduation, Dr. Camp worked for the public health service while performing a general surgical residency at New York Medical College. He later received fellowship training in surgical physiology. He returned to Baltimore in the late 1940s to establish a surgical practice. Camp was involved in the relocating of Franklin Square Hospital to White Marsh in 1961, and he was instrumental in the founding of Laurel General Hospital where he conducted pre-admission testing to reduce lengthy hospital stays. He had privileges at Maryland General, South Baltimore, Prince George's and Franklin Square hospitals. In 1964, he established United Optical, Inc., and in addition to running the company also served as its medical director. The company grew from a chain of shops in Baltimore to United HealthCare, Inc., a managed-care health company. He retired in 2000. Camp was chairman of the Baltimore-Genoa Sister Cities Committee, and he was honored by the president and senate of Italy with the Merit of Honor of Cavaliere. With a former business partner he purchased Westminster Hall—burial place of Edgar Allan Poe—and

transferred ownership to Maryland's law school located directly behind the property. He was a member of the 1807 Circle of the John Beale Davidge Alliance, the medical school's society for major donors. Camp enjoyed golf, skiing, cooking, and travel. He is survived by wife Lorraine, two children including **Michael R., '71**, and two grandchildren. Camp was preceded in death by son Jonathan in 1971. His marriage to **Leah, '45**, ended in divorce.

John J. Tansey, '45
Baltimore
August 24, 2009

During medical school, Dr. Tansey enlisted in the U.S. Naval Reserve; so after graduation in 1945, he served as a medical officer until 1948. Great Lakes Naval Hospital in Illinois was the site of his internship, and he was later assigned to the Fleet Marine Police in Hawaii. He returned to Baltimore afterwards for residency training in orthopaedic surgery at Maryland. Tansey opened a private practice, headed the amputee and prosthetic clinic at Kernan Hospital, and served as clinical associate professor of orthopaedic surgery at Maryland. In addition, from 1960 to 1979, he was chief of orthopaedics at St. Agnes Hospital. He retired in 1987, but continued to work as a consultant to the federal government and also volunteered with Health Volunteers Overseas, traveling to a refugee hospital in Pakistan. Tansey was a member of the John Beale Davidge Alliance, the society for major donors of the medical school. He enjoyed gardening and horses. He is survived by wife Shirley, one son and one daughter.

William J. Bannen Jr., '46
Greenville, S.C.
May 14, 2009

Upon graduation, Dr. Bannen interned at the University of Pittsburgh Medical Center and received one year of general training at Thomas Memorial Hospital in Charleston, W.Va., before beginning practicing general medicine in Dunbar. In 1951, he joined the U.S. Air Force School of Aviation Medicine and became a flight surgeon. Bannen was stationed at Keflavik Air Force Base in Iceland and later at Donald Air Force Base

in Greenville, S.C., flying B-17s and C-47s. Upon completion of his military service, Bannen traveled to Salt Lake City, Utah, for one year of pediatric residency training at Salt Lake County Hospital. He returned to Greenville and formed a partnership in a family practice. Bannen was a past president of the American Academy of Family Physicians South Carolina chapter and was instrumental in the founding of Hillcrest Hospital in Simpsonville. He also served as president of the chamber of commerce and Simpsonville Rotary Club. He enjoyed flying, golf, dancing, gardening, and playing bridge. Survivors include two sons, one daughter, and eight grandchildren.

Benjamin M. Gold, '47
Rocky Mount, N.C.
July 30, 2009

Maryland was the site of Dr. Gold's internship and first stage of residency training in OB/GYN which he completed at Parkland Hospital in Dallas. In 1952, he moved to Rocky Mount, N.C., where he began practicing OB/GYN with Parkview Hospital and later Nash General Hospital. He was president of the Nash County Medical Society and retired in 1980 due to disability. He was a member of Benvenue Country Club and the Elks Club of Rocky Mount. An avid outdoorsman, he enjoyed hunting, fishing, and golf and spent considerable free time at Gaston Lake in Littleton and Pirates Cove in Nags Head. Gold is survived by wife Cora Lee, two sons, and three grandchildren.

G. Donald Niswander, '48
Concord, N.H.
August 20, 2009

Dr. Niswander interned and received one year of residency training in internal medicine at Cincinnati General Hospital, before spending four years at the Boston Psychopathic Hospital at Harvard Medical School. He was on the staff at New Hampshire State Hospital and for a time served as the acting superintendent. Niswander was widely published and practiced psychiatry until 1993. He later served as a consultant to the State of New Hampshire. He and wife Patricia had five children.

Paul V. Nolan, '48
Signal Mountain, Tenn.
June 25, 2009

Tampa Municipal Hospital (Fla.) was the site of Dr. Nolan's internship. He was a flight surgeon in the U.S. Air Force and later received an MPH from the University of California at Berkeley. Nolan practiced family and occupational medicine in Lawndale and Kings Mountain, California, before moving to Tennessee where he was a member of the Hamilton County Quarterly Court from 1966 to 1978, was a state representative from 1968 to 1970, and served four terms on the county commission from 1982 to 1998. Nolan is survived by wife Anne, two sons, five grandchildren, and two great-grandchildren.

Clark A. Whitehorn, '48
Panama City, Fla.
August 19, 2009

After graduation, Dr. Whitehorn interned at Detroit Receiving Hospital and trained in urology at Maryland General Hospital, Johns Hopkins Hospital, and Duke University Medical Center. He began practicing in Panama City in 1958 and served as chief of staff for Bay Medical Center. Appointments also included president of the Bay County Medical Society and Florida State Urological Society. For two years Whitehorn also taught and practiced at Albany Medical College Hospital in New York. He retired in 1998. He was a member of the John Beale Davidge Alliance, the medical school's society for major donors. Whitehorn enjoyed reading, gardening, motor homing, fishing, and world travel. He is survived by wife Virginia; together they had one son.

Raymond R. Curanzy, '51
Palmyra, Pa.
January 27, 2009

Dr. Curanzy received training at Reading Hospital in Reading, Pa., before moving to Palmyra where he began a general practice in 1952. He served on the staffs at Good Samaritan Hospital, Lebanon Hospital, and Hershey Hospital where he also served as chief of staff from 1963 to 1968. He was a member of the faculty at Hershey Medical Center from 1967 to 1987, and he

in memoriam

was elected president of the Pennsylvania American Heart Association in 1966. On behalf of the Louise Von Hess Foundation, Curanzy traveled to France, England, Spain, and Portugal in 1991 to study and report on the effectiveness of the healthcare systems in these countries. He served as president of the Palmyra Area School Board from 1967 to 1980, as well as the Pennsylvania Nut Growers Association from whom he received awards for nuts grown on his Annville farm. He also enjoyed golf, anthropology and human origins, biblical archaeology, and history. Upon retirement in 1994, Curanzy attended anthropology classes at the University of Pennsylvania and traveled extensively to places such as Egypt, Russia, Iran, and Uzbekistan. He is survived by wife Helen, one son, one daughter, and three grandchildren. He was preceded in death by a second son.

Stuart P. Culpepper, '52

Sanford, Fla.

May 21, 2009

Rex Hospital in Raleigh, North Carolina, was the site of Dr. Culpepper's internship, followed by residency training at Duke University and Tampa General Hospital. He enjoyed woodworking, golf, and riding motorcycles. He is survived by wife Wanda, three sons, one daughter, three step-daughters, 15 grandchildren and two great-grandchildren.

Harry M. Walsh, '52

Easton, Md.

June 27, 2009

Dr. Walsh received residency training in surgery at Wayne County General Hospital in Wayne, Mich., and Nassau Hospital in New York. For many years he practiced surgery at Easton Memorial Hospital. Appointments included chief of surgery at King Abdulaziz Airbase in Saudi Arabia, the VA Medical Center in Salisbury, N.C., Charleston Naval Hospital, Paris Island, and Patrick Air Force Base in Florida. Walsh was a staunch conservationist who published *The Outlaw Gunner*, a highly acclaimed book about the Chesapeake Bay. His conservation efforts led to the founding of the Waterfowl Festival which has raised

millions of dollars for wildfowl preservation. He donated artifacts to the Chesapeake Bay Maritime Museum, the Chincoteague National Wildlife Refuge Museum, and the Mariners' Museum, and he was the recipient of two Maryland governor citations. Walsh is survived by wife Mary, four sons, two daughters, and 12 grandchildren.

Harrison M. Langrall Jr., '53

Paoli, Pa.

February 26, 2009

Winchester Memorial Hospital in Winchester, Va., was the site of Dr. Langrall's internship, followed by residency training in internal medicine and an endocrinology fellowship at the Mayo Clinic in Rochester, Minn. He was retired due to physical disabilities. Langrall is survived by wife Mary Ann, three children, six grandchildren, and four great-grandchildren. He was preceded in death by wife Mary Jane and one daughter.

Israel H. "Sonny" Weiner, '53

Baltimore

September 11, 2009

Maryland was the site of Dr. Weiner's training following graduation. After internship and one year of neurological surgery residency training he spent two years in the U.S. Air Force based at Lackland Air Force Base in Texas. He then returned to Maryland for three years of training including a fellowship in neuropathology. Weiner then traveled to London for an additional one-year fellowship at the National Hospital for Neurologic Disease. He returned to Baltimore in 1960 and created the first neurosurgery group practice in the area while also serving on the staffs at Northwest Hospital Center, Mercy Medical Center, Franklin Square Hospital, St. Joseph Medical Center, and the University of Maryland where he was an assistant professor. His concerns about a changing doctor/patient relationship led him into activities with the state medical society and from 1983 to 1985, Weiner headed the governor's commission on health care providers liability insurance. In 1988, after the legislature merged the state's physician licensing board with the state's medical

disciplinary agency. Weiner served for two terms as chair of the new Maryland State Board of Physician Quality Assurance. He retired from practice in 1993 but continued consulting to other neurosurgeons and to lawyers handling medical cases. Weiner was a member of the John Beale Davidge Alliance, the medical school's society for major donors. He enjoyed tinkering with automobiles and electronics and was an avid Baltimore Orioles fan. Survivors include wife Isobel, three physician-children, and nine grandchildren.

Ernest O. Brown, '56

Baltimore

June 8, 2009

Dr. Brown traveled to Cambridge, Mass., for his internship at Cambridge Hospital. He served the following two years as a general medical officer in the U.S. Air Force stationed at Plattsburgh Air Force Base in New York. After military service, he received residency training in surgery at Fort Howard Veterans Affairs Medical Center and then set up a private practice in Baltimore. Brown was an attending surgeon at Sinai Hospital, Maryland General Hospital, Baltimore County General Hospital, North Charles General Hospital, and Provident Hospital where he also served as president of the medical staff. From 1965 to 1986, he was a consultant to the Social Security Administration's medical disabilities office. He retired from practice in 1994 but kept active by serving as a consultant to the Maryland Department of Health and Hygiene. Brown enjoyed writing poetry and playing bridge and pinochle. Survivors include wife Loraine, two daughters, and two grandchildren. He was preceded in death by a third daughter.

Gerald D. Schuster, '56

Hollywood, S.C.

July 9, 2009

Sinai Hospital in Baltimore was the site of Dr. Schuster's internship, followed by one year of residency training at James Lawrence Kernan Hospital and three years at the Washington Hospital Center in Washington, D.C. In 1965, Schuster began a private practice of orthopaedic surgery and

years later started the first interdisciplinary pain center in the Washington area. He later moved to Hollywood, S.C., where he continued in practice and in 2003 was elected mayor. Schuster enjoyed politics and wood working. He is survived by wife Marlene three children, including **Ronald, '83**, and his wife **Phyllis, '85**, three stepchildren, and 13 grandchildren.

Stuart J. Abrahams, '57

Jackson, Wyo.

May 18, 2009

Dr. Abrahams interned at Maryland and received residency training at Columbia Presbyterian Hospital and Yale-New Haven Hospital. He practiced OB/GYN and beginning in 2000 served as clinical instructor at Wake Forest School of Medicine. Abrahams enjoyed back packing and metal sculpture. He is survived by wife Maryann, three children, and five grandchildren.

Wildred F. "Bill" Holdefer Jr., '57

Birmingham, Ala.

June 23, 2009

Upon graduation, Dr. Holdefer remained at Maryland for internship and residency training. From 1962 to 1964, he received additional training in cardiovascular and thoracic surgery at the University of Alabama in Birmingham. Holdefer served on the UAB faculty afterwards, becoming professor of surgery in 1967. In 1985, he added the title of associate professor in the department of emergency medicine. He also served as medical director for AirMedInternational beginning in 1988, flying more than 300 medical missions as an air transport physician. Upon retirement in 1997, Holdefer was named associate professor emeritus at UAB where he continued teaching students in the emergency department. He enjoyed travel, flying, model railroads, and spending time with family. He is survived by wife Helen, six children, and 12 grandchildren, and one great-grandchild.

Maurice J. Berman, '58

Randallstown, Md.

July 13, 2009

Dr. Berman interned and received residency training in general surgery at Mercy Hospital

in Baltimore. From 1962 to 2000, he maintained a private surgical practice. He began practicing addiction medicine in 2002, and in that same year became medical director for Network Health. Berman enjoyed travel, and he is survived by wife Sharon, three children, and six grandchildren.

Perry A. Eagle, '67

York, Pa.

September 9, 2009

Dr. Eagle trained in orthopaedic surgery at Allegheny General Hospital in Pittsburgh and also served a fellowship in hand surgery at Grace Hospital in Detroit. He practiced orthopaedics in York until 2007. He enjoyed the Baltimore Symphony Orchestra, gardening, and fishing. Eagle is survived by two sons and former wife Barbara.

Eugene Willis Jr., '68

Ellicott City, Md.

August 11, 2009

Upon graduation, Dr. Willis served in the U.S. Army, interned at Georgetown University Hospital, and performed residency training in orthopaedics at Kernan Hospital. He established an orthopaedics practice in Howard County and served as chairman of the staff at Howard County General Hospital where he also sat on the board of trustees from 1988 to 1995. Willis joined Patuxent Medical Group in 1985. He was a trustee of Howard County Community College and the Columbia Foundation. Willis enjoyed golf, ping-pong, and played baseball on an over-40 league. Survivors include one daughter, two sons, and one grandson. He was preceded in death by wife Carolyn.

Stanley S. C. Tseng, '70

Huntington Beach, Calif.

July 12, 2009

Dr. Tseng was born in Meixian, China, and immigrated to America in 1962. Upon graduation from Maryland, he trained in ophthalmology at Georgetown University before spending two years at St. Elizabeth's Hospital in Boston fulfilling his obligation to the U.S. Public Health Service. Tseng moved to California in 1976, practicing ophthalmology at Kaiser Bellflower for 27 years. He was appointed chief of oph-

thalmology at Kaiser in 1977, a post he retained until retirement in 2006. He also served as clinical professor of ophthalmology at the University of California, Irvine. Tseng was a member of the 1807 Circle of the John Beale Davidge Alliance, the medical school's society for major donors. He enjoyed bicycle riding, basketball, tennis, dancing, and playing bridge. He is survived by wife, Kay, two children including **Bryon**, a fourth-year medical student at Maryland. Also surviving is sister **Jennifer Tseng, '82**.

William H. Bouchelle, '71

Cockeysville, Md.

June 11, 2009

Maryland was the site of Dr. Bouchelle's internship and surgical residency, however his training was interrupted from 1973 until 1976 when he enlisted in the U.S. Air Force and was stationed in Holland. In his final year of training, Bouchelle served as chief surgical resident. In 1981, he established a general surgical practice in Baltimore with expertise in abdominal, laparoscopic, and breast cancer surgery. He was an attending surgeon at Maryland, Mercy Medical Center, Sinai Hospital, Greater Baltimore Medical Center, St. Joseph Medical Center, Northwest Hospital Center, and Good Samaritan Hospital where he maintained his office. Bouchelle enjoyed golf, skiing, travel, playing classical piano, and crossword puzzles. He is survived by wife Zoe, one son, and two daughters.

Faculty

Brian E. Emery, MD

Sykesville, Md

September 10, 2009

Dr. Emery was a member of the full-time faculty at Maryland in the department of otorhinolaryngology from 1995 to 2003. He is survived by one son and fiancé Susan Knutson. His marriage to Kathi Emery ended in divorce.



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Friday, April 30

8:30–10:30 am	Open House, Check-in & Continental Breakfast
9:00–9:45 am	Financial, Retirement, & Estate Planning
10:00–11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am–1:15 pm	135th MAA Luncheon & Business Meeting
1:30–3:00 pm	17th Historical Clinicopathological Conference
1:30–3:30 pm	Afternoon Check-in, Davidge Hall
3:30–4:30 pm	School of Medicine Tour
6:30–9:30 pm	The Happening at the Harbor, Baltimore Museum of Industry

Saturday, May 1

8:30 am–1:30 pm	Open House & Check-In
8:30–10:00 am	Continental Breakfast, Davidge Hall
10:00–11:00 am	Campus Walking Tour
11:00–11:45 am	Restoring Davidge Hall: An Update
11:30 am–2:00 pm	Complimentary Picnic, Davidge Hall
1:00–1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00–2:30 pm	Baltimore City Land & Sea Tour
1:35 pm	Baltimore Orioles Baseball
Evening	Class Reunions (years ending in "0" and "5")



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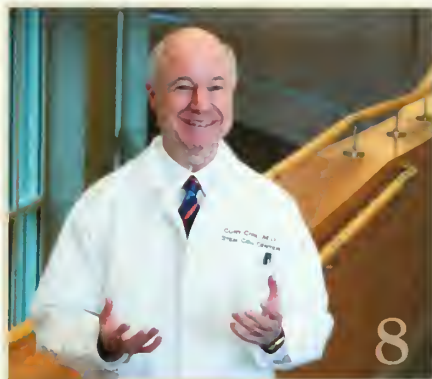
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University of Maryland Medical Alumni Association & School of Medicine



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features

Stem Cells: Beyond Transplantation 8

For three days last September, world-class scientists gathered in Baltimore for the World Stem Cell Summit, co-hosted by Maryland and Johns Hopkins. The location of the event was a logical choice, given the state's leadership in the advancement of stem cell research. The medical school's program is headed by Curt Civin, MD, who is internationally recognized for his stem cell discoveries.

On the cover: Adult neural stem cells (in green) migrate to their destination in the brain in chains of cells crawling over each other. They express surface proteins (in red) to assist their migration in the adult environment. Courtesy of Adam C. Puche, PhD.

Alumnus Profile: Louis R. Caplan, '62 20

Pathfinder and Physician

Maryland's department of neurology recently recognized Louis R. Caplan, '62, by naming its stroke service in his honor. Caplan is professor of neurology at Harvard Medical School and senior neurologist at Beth Israel Deaconess Medical Center, and he is considered by many to be the world's leading authority on stroke treatment. His efforts led to the founding of the NIH-sponsored National Stroke Data Bank.

Alumna Profile: Jessie Gaeta, '98 22

Enhancing Healthcare for Boston's Homeless

In high school, she was a Habitat for Humanity participant. During medical school, it was serving meals to the homeless and walking the streets of New York City to aid the sick. So it should come as no surprise that the professional life of Jessie Gaeta, '98, has been much the same. In Boston, she co-founded Housing First, an unconventional program that has improved healthcare for the chronic homeless by finding them a home before administering treatment.

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message

The following is a summary of my annual State of the School Address, which I presented to a standing-room-only crowd September 30, 2009. I was pleased to see some of you were there, and for those of you who were not able to attend, I wanted to share with you some of the highlights.

“Navigating and Prevailing Through Challenging Times” was the theme of my 2009 address, illustrating how the school has thrived in the face of extraordinary challenges, including the international economic crisis, early constraints in NIH funding, furloughs and hiring freezes, and space limits that threaten continued growth.

When the school leadership charted our course this past year, we had no way of knowing what the future would bring. We mapped the path to achieve ambitious goals, realizing that we may need to make modifications and adjustments along the way. We were confident that we were ready for the journey; in fact, we looked forward to the voyage ahead. However,

like all medical institutions across the country we faced a storm of challenges. The national economic downturn that began about a year ago had an immediate impact on our financial well-being.

Some of the challenges that we faced included financial constraints for continued growth, state budget cuts, shrinking endowments, furloughs, a hiring freeze, difficulty in fund raising during the tough economic times, inadequate scholarship support, and, of course, space constraints for continued research growth.

However, despite these challenges, we were determined—in fact we were resolute—to maintain our momentum; so we had to reset our compass. We kept our eyes firmly on our goals, and through the use of creative

navigational means, were able to chart a successful course to accomplish them and enjoyed an extraordinary year in many ways, thanks to the outstanding accomplishments of faculty, staff and students.

At a time when NIH funding remained relatively flat (excluding the stimulus funding), researchers at the school were awarded \$425.8 million in grants and contracts in FY09, a 13 percent increase over FY08. The growth in research funding reflects the quality, strength, and high caliber or excellence of our research enterprise.

The continued growth in research funding helped propel the school to even higher rankings by the Association for American Medical Colleges. Among all 76 public medical schools, our school jumped from 7th to 6th place. Among all 131 private and public medical schools, the school now ranks 18th in total direct grants and contract expenditures—up from 19th place last year.

The school's total revenue, which includes grants, tuition, state funding, faculty practice and philanthropic gifts, was \$818.3 million. Fifty-two percent of total revenue comes from grants and contracts, while clini-



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
University of Maryland
John Z. and Akiko K. Bowers Distinguished
Professor and Dean, School of Medicine

Total Grants & Contracts FY2000-2009*

Since 1998, SOM has received:
\$3.8 billion in total grants & contracts
\$1.4 billion in NIH funding



*This excludes all new stimulus fund grants

University of Maryland School of Medicine

MARYLAND NATIONAL RANK 2008

Rank	School	Grants & Contracts	Rank	School	Grants & Contracts
1.	U Washington	\$ 628,359,572	6.	Maryland	\$ 290,375,018
2.	UCSF	\$ 619,527,094	7.	Michigan	\$ 259,405,564
3.	UCLA-Geffen	\$ 445,267,939	8.	Alabama	\$ 242,955,451
4.	Colorado	\$ 335,815,763	9.	North Carolina	\$ 227,998,723
5.	UCSD	\$ 329,905,831	10.	UT Southwestern	\$ 219,919,053

Total Grants and Contracts Direct Expenditures Public Schools, All Regions

AAMC Medical School Profile System 2008

Rank	School	Grants & Contracts	Rank	School	Grants & Contracts
1.	Harvard	\$1,458,375,652	11.	Yale	\$361,168,074
2.	UWash	\$628,358,572	12.	Wash U-St. Louis	\$356,101,767
3.	UCSF	\$623,498,989	13.	Colorado	\$327,569,949
4.	UCLA-Geffen	\$495,267,939	14.	UCSD	\$329,905,831
5.	Johns Hopkins	\$484,465,130	15.	Stanford	\$313,103,321
6.	Duke	\$482,504,735	16.	Case Western	\$298,383,387
7.	Pennsylvania	\$468,956,289	17.	Baylor	\$294,204,448
8.	Columbia	\$460,945,503	18.	Maryland	\$290,375,018
9.	Mount Sinai	\$400,588,828	19.	Michigan	\$259,405,564
10.	Pittsburgh	\$388,397,076	20.	Vanderbilt	\$258,583,563

University of Maryland School of Medicine

cal revenue accounts for roughly 40 percent. Thanks to outstanding practice plan performance, total clinical care revenue increased 8 percent to \$210 million in FY09. The school's partnership with the University of Maryland Medical System remains very strong, and together they generated an economic impact of nearly \$5 billion for the state of Maryland.

Patient care is obviously a very important part of the school's mission. Clinical faculty provided care for over one million patients, a two percent increase over the previous year. This is truly exceptional in the current fiscal environment, and the clinical faculty deserve a great deal of credit for their outstanding performance.

Despite plummeting investment returns, philanthropic funding for the school remained strong, thanks to generous

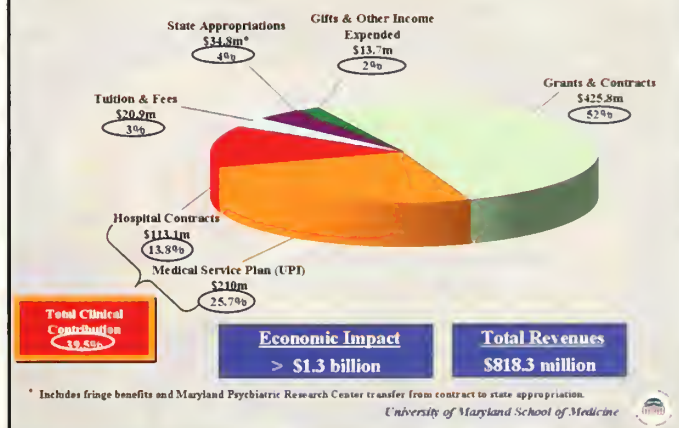
private gifts and endowments, increasing 9.5 percent to \$53.8 million. These included three gifts of more than \$2 million each to fund endowed professorships in radiation oncology, transplant surgery and OB/GYN. Even in light of the difficult economic times, it was the school's best year ever for fund raising.

Media coverage generated by faculty accomplishments also increased. The total number of story placements rose by 13 percent to nearly 26,300; national placements rose by 12 percent to nearly 24,000; television placements rose by 36 percent to 8,000; and internet placements rose by 76 percent.

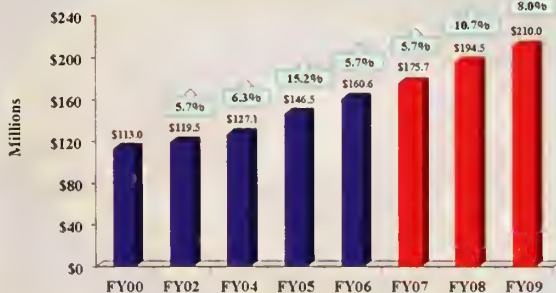
Despite tough economic times, development of the Health Sciences Facility III research building remains a priority, along with continued growth in research funding, and finding ways to leverage federal stimulus funds.

We are extremely grateful for all the successes the school has experienced this past year. We envision many challenges ahead, and since the national economic downturn continues, we have to be realistic about the future. Nevertheless, we are optimistic that our momentum will continue, and we believe that, despite the very real challenges that exist, we will prevail. 🏛️

University of Maryland School of Medicine FY2009 Revenues



Practice Plan Performance Total Clinical Revenue FY2000-2009



Private Gifts and Endowment by Year FY2004-2009



EVENTS Saunders, Passen, Claim Alumni Awards for 2010

Elijah Saunders and Selvin Passen, members of the class of 1960, have been named recipients of the Medical Alumni Association's annual awards.



Elijah Saunders, '60

Saunders will receive the Honor Award & Gold Key. Presented since 1948, the award recognizes outstanding contributions to medicine and distinguished service to mankind. Saunders, among the first African-American graduates of the medical school, became Baltimore's first black cardiologist upon completion of training in 1965. After nearly 20 years in private practice, he joined the faculty at Maryland

in 1984. As a professor of medicine, he headed and developed one of the country's premier hypertension programs. He is credited with organizing creative programs in the Baltimore community to raise awareness of the dangers of high blood pressure. This crusade started in Baltimore churches where he encouraged blood pressure screenings, and later this program, sponsored by CareFirst BlueCross BlueShield, trained barbers and beauticians to take customers' blood pressure. In recog-

nition of his contributions at Maryland, a professorship was established in his honor.

Passen has been named recipient of the Distinguished Service Award, presented since 1986 for outstanding contributions to the MAA and school. The Baltimore native has been organizing reunions and fund raising from his class since graduation in 1960. Passen joined the alumni board in 1986 and was elected president in 1998. He was one of the early proponents of establishing an alumni association endowment fund which was accomplished in 1991, due in large part to his encouragement and financial support. The fund was named in his honor in 1997. Passen continues to serve on the budget & finance committee, as well as the Davidge Hall Restoration Committee. A pathologist, he was founder of Maryland Medical Laboratories, Inc., in 1968—one of the largest clinical testing laboratories in the region. It was sold to Corning in 1994.

The awards will be presented at the 135th Recognition Luncheon during Reunion on April 30 when the two celebrate their 50th medical school anniversaries.



Selvin Passen, '60

EVENTS Radiology Reception in Chicago

More than 50 faculty and alumni of the medical school and radiology training program gathered for a reception in Chicago on November 30. The event ran in conjunction with the annual meeting of the Radiological Society of North America and was co-hosted by **Reuben S. Mezrich, MD**, chairman of Maryland's department of diagnostic radiology and nuclear medicine and the Medical Alumni Association. The gathering was held at Cité, a restaurant on the Navy Pier. 🏛️



Barry H. Friedman, '69, Douglas R. Brunner, '80, Reuben S. Mezrich, MD, and Charles I. Weiner, '70

Sharon Boston • Rebecca Cerau • Ellen Beth Levitt • Larry Roberts • Bill Seiler • Karen Warmkessel

John Seebode • Mark Teske

Maryland to Lead Multi-Center Heart Failure Studies

A new \$11.2 million, five-year grant from the National Institutes of Health (NIH) will enable Maryland researchers and three other centers to improve the treatment of chronic heart failure. This multifaceted research program is the largest effort of its kind to focus on a basic question in heart failure: how can nutritional changes impact heart function to help patients with a failing heart?

"Years of untreated high blood pressure or loss of cardiac tissue and scarring after a heart attack cause certain mitochondria to develop defects," says **William C. Stanley, PhD**, professor of medicine and director of cardiovascular sciences who leads the research program. "Different substances from food affect the mitochondria in different ways. We want to improve those defective mitochondria and prevent the mitochondria from going bad when they are constantly under stress," he says.

Their hypothesis is that the electrical abnormalities that lead to heart failure can be reversed by consumption of a diet low in carbohydrates and high in polyunsaturated fat.

Stanley and investigators at three other institutions (Case Western Reserve in Cleveland, Henry Ford Hospital in Detroit, and New York Medical College) have been collaborating for 10 years. Their work, funded with a previous NIH grant, has already produced 85 peer-reviewed journal publications and has provided many insights into the causes and results of heart failure.

Stanley and his team will investigate new dietary changes to

prevent and treat heart failure. Their hypothesis is that the electrical abnormalities that lead to heart failure can be reversed by consumption of a diet low in carbohydrates and high in polyunsaturated fat. "We want to figure out how to improve this transfer of energy so the function of the heart is maintained in the early stages of heart failure or even before heart failure has been established," he says.


The study builds on the group's previous research, which showed that a low-carbohydrate/high-polyunsaturated fat diet can prevent or reduce some of the most serious aspects of heart failure. In addition, they found that dietary supplementation with omega-3 polyunsaturated fatty acids prevents development of heart failure, and a high-sugar diet further accelerates development of heart failure. "We have observed that high-sugar diets are toxic in animal models of high blood pressure, leading to heart failure. We'll try to learn why that is. We will also evaluate why polyunsaturated fatty acids from fish oils are protective to the heart in heart failure,"

Stanley adds.

"Therapy focused on improving cardiac energy metabolism could help the heart work smarter, not harder," says **Mandeep R. Mehra, MBBS**, professor of medicine, head of the division of cardiology at the school and chief of cardiology at the medical center. "We

believe this is a very important and promising area of research because it may be the key to simpler approaches,

through the diet, to manage and even improve heart failure."

Heart failure affects nearly 5 million Americans. Five years after their initial diagnosis, fewer than 50 percent of heart failure patients are alive; at the 10-year mark, fewer than a quarter of patients survive. 



Transitions



Stephen B. Liggett, MD, professor of medicine and physiology and director of the cardiopulmonary genomics program, was named associate dean for interdisciplinary research. Liggett is charged with fostering scientific collaboration between faculty members throughout the institution in order to develop a broad range of interdisciplinary basic science and translational research projects. He is working closely with **Curt Civin, MD**, associ-

ate dean for research and director of the center for stem cell biology and regenerative medicine, and with **Bruce Jarrell, MD**, executive vice dean, to develop an infrastructure to facilitate this growth in biomedical research. Liggett is also helping integrate into the school the new research centers from the biotechnology institute.

Mary Rodgers, PT, PhD, FAPTA, professor and chair, department of physical therapy & rehabilitation science, is on a one-year sabbatical as an American Association for the Advancement of Science fellow with the National Institute of Bioimaging and Bioengineering at the National Institutes of Health. During her sabbatical which began September 1, 2009, **Mark Rogers, PT, PhD**,

professor, is serving as interim chair of the department. His other departmental duties continue as vice chair for research and director of the PhD program in physical rehabilitation science. 🏛️



Four-Way Kidney Transplant

In early November, Maryland surgeons successfully completed a four-way kidney exchange involving eight patients from four states.

All four of the living donors had a kidney removed through a single incision through their navel, which speeds recovery and leaves virtually no scar. Maryland has performed more of these single-incision laparoscopic surgeries than any hospital in the country, but this is the first time that the technique has been used in a multiple kidney exchange.

Stephen T. Bartlett, MD, surgeon-in-chief at the medical center and professor and chairman of surgery at the medical school, performed two of the transplants.

"This large living donor kidney exchange requires extensive planning and coordination, but it provides great benefits to people with kidney failure who do not have a compatible living donor," Bartlett says.

The patients were from Maryland, Virginia, Massachusetts and Florida. The youngest recipient was a 10-year-old boy from the Baltimore area, and the oldest a 74-year-old man from Virginia Beach, Va.

Only a handful of hospitals in the country have performed large kidney transplant exchanges such as this one. The procedures, which took place over two days in four operating suites at the medical center, required extensive coordination and planning not only in the

operating rooms, but also in the waiting rooms. Because the right to privacy for the donors and recipients is protected throughout the process, separate areas in different parts of the hospital had to be reserved for the families to ensure anonymity.

"There is a significant difference in outcomes with living-donor kidney transplants," says **Benjamin Philosophe, MD, PhD**, director of the division of transplantation at the medical center and associate professor of surgery at the medical school. "There is also a severe shortage of kidneys from deceased donors, causing people to wait three to five years to get a kidney. So, living donor transplants are often the best option for patients. With these types of kidney exchanges, we can dramatically increase the availability of donor kidneys and help many more people who need a transplant."

More than 82,000 people waiting for kidneys are on the official list maintained by the United Network for Organ Sharing. Last year, 16,517 received transplants—5,967 from living donors. 🏛️



Stephen T. Bartlett, MD

Shedding Complications Associated with Kidney Disease

Maryland researchers have made an important discovery about why potassium builds up to dangerous levels in the bloodstream, a relatively common medical problem that affects about eight percent of hospitalized patients. They have identified a new molecular pathway and a new class of molecules responsible for preventing potassium from being excreted normally through the kidney. Their study was just published in the *Journal of Clinical Investigation*.

They hope this discovery will lead to the development of a new class of drugs to treat the condition, known as hyperkalemia, caused when patients can't properly excrete excess potassium. If it is not treated promptly, it can cause fatal cardiac arrest.

"We are particularly excited about the translational potential of our basic science discovery," says **Paul A. Welling, MD** professor of physiology. "Currently, there are no drugs that specifically target the molecular defect in kidney potassium retention. This new class of drugs would pave the way to allow damaged kidneys from long-standing high blood pressure, diabetes or heart disease, to continue to properly excrete potassium in the urine; so that potentially fatal hyperkalemia can be prevented."

Potassium is critical for proper functioning of muscles, nerves and the heart. The kidney is the organ primarily responsible for eliminating excess potassium. People at highest risk for abnormally high levels of potassium in the blood are those with kidney disease because they cannot properly excrete the potassium

through the urine. About 67 percent of cases of severe hyperkalemia are fatal if they are not caught and treated promptly.

A kidney gene called ROMK (Renal Outer Medullary K⁺ Channel) controls the levels of potassium excretion in the kidney. In people with kidney disease, the protein made by this gene no longer signals properly to ensure adequate excretion through the urine; so the potassium can build up in the blood. With funding from the National Institute of Diabetes and Digestive and Kidney Disease at the National Institutes of Health, Welling and his post-doctorate fellow **Liang Fang, PhD**, have discovered

this new class of protein molecules responsible for this abnormal signaling. This new molecule has been shown to interact with the ROMK gene and then inhibit the excretion of potassium, thus causing high blood levels.

"Our findings solve a mystery of how potassium excretion is turned off in response to dietary potassium deficiency and points to an underlying defect in kidney disease" says Fang.

The name of this new adaptor protein is called ARH (Autosomal Recessive Hypercholesterolemia protein). The researchers hope that now that this pathway has been uncovered, it will lead to the development of new drugs that can prevent ARH from interacting with the ROMK gene.



Paul A. Welling, MD

By Rita M. Rooney



Curt Civin, MD

Stem Cells: Beyond Transplantation

Just a few years ago, Curt Civin, MD, professor of pediatrics and associate dean for research, was called to the emergency department by a pediatrician concerning a 15-year-old boy with undiagnosed symptoms. After a thorough examination and battery of tests, doctors still hadn't reached any conclusion about the source of the boy's illness. Civin looked into the microscope and was quite certain he had the answer. He ordered a molecular test that quickly pinpointed a mutation in a specific enzyme, and he was able to immediately diagnose chronic myeloid leukemia, a cancer for which a new revolutionary drug had recently been developed.

"I told the young man I had both good and bad news for him," Civin says. "The good news was that I could cure his life-threatening disease. The bad news—he would have to go to school the next morning."

Civin, who is internationally recognized for his stem cell discoveries, now serves as director of the University of Maryland Center for Stem Cell Biology and Regenerative Medicine. At the time he was asked to help diagnose the boy's condition, stem cells had only recently been used in development of the "miracle" drug, Glevac, which he administered to the patient. It was as simple as telling the young man to take a pill and call him in the morning. There would be no hair loss and only minimal side effects. A year earlier, therapy would have taken a much different course. A bone marrow transplant might have been performed, but that procedure is highly toxic and not always successful. In this case, bone marrow transplantation could be held in reserve for the patient if his disease developed a resistance to Glevac. Instead, life for this teenager returned to normal after a good night's sleep.

In that one extraordinary healing episode lies the essence of stem cell research. It isn't just about transplantation. The cells today are being effectively explored for diagnosis and treatment, and tomorrow—prevention.

For three days in September, 2009, the global stem cell community gathered in Baltimore for the World Stem Cell Summit, presented by the Genetics Policy Institute and co-hosted by the University of Maryland and Johns Hopkins. More than 1,200 world class scientists gathered to focus on the science, business, policy, law and ethics of stem cell research. The setting was an appropriate one in that Maryland, with one of the largest biotech components in the country, is indisputably among those states taking the lead.

Civin reports one of the highlights of the summit was a collaborative agreement between Maryland and Califor-

Image of the brain showing migrating neural stem cells (green) radiating out from a central pathway into regions of mature brain (red). Image courtesy of Dr. Adam C. Puche from *Eur. J. Neurosci.* 20:1307-1317

nia, formed by the Maryland Technology Development Corporation and the California Institute for Regenerative Medicine.

"This amounts to an exciting commitment between two states at the forefront of stem cell work," he reports. "It establishes a protocol in which we will join together and pool resources to help scientists in both states share their talents and discoveries."

Advancing from Bench to Bedside

Meanwhile, Maryland's new center is driven by a single imperative—working quickly beyond bench science to the actual use of stem cells to transform medicine. In 1984, Civin propelled the success of transplantation research and clinical applications with his discovery of a way to isolate and purify the cells. This milestone opened the door to improved treatment for bone marrow transplantation. Patients who earlier had to be transplanted with a donor's whole bone marrow could benefit from the transplantation of purified hematopoietic or blood-forming stem cells.

Civin is a visionary, and it shows in the manner in which he discusses his work. While talking about ongoing research in medical school laboratories, he will suddenly switch to a "what if" perspective. On the one hand, he is the pragmatic scientist outlining ongoing studies with definitive strategies. But then he becomes animated as he skips ahead to what the next decade may bring, and the listener is treated to a rare glimpse of advances barely imagined a few years ago.

"A lot of our work involves the use of stem cells as models," he says. "Right now, when we want to test a new drug, we test it on animals. But is a mouse the perfect model? We can often cure cancer in the mouse and not in the human."

He goes on to say the availability of models for all human organs and systems would enable studies that better approximate patients, and adds that models for toxicity would increase the safety of clinical trials in that relying on animal models can lead to inappropriate conclusions.

"Imagine a situation in which we want to use a specific drug for a pregnant woman but are worried that it might harm the fetus," he says. "At this point, we test it on a pregnant animal to see if it crosses the placenta. If it does, ordinarily we wouldn't use it. There might be a situation, however, in which the doctor considers the risk necessary. How much better it would be if we had information from stem cell models to find out if the drug is harmful to the developing organs."

One of 30 founding members of the center, Laure Aurelian, PhD, professor of pharmacology and experi-

mental therapeutics, is a molecular virologist interested in gene therapy. Her work involves putting genes in cells, and is aimed at treating diseases from brain cancer to alcoholism.

"I became interested in stem cells in 2004 when my lab discovered they are involved in a certain skin disease called Herpes associated erythema multiforme," she reports. "We showed that this skin lesion is caused by infection of the blood forming stem cells that are also given to bone marrow transplant patients with Herpes simplex virus. We reasoned that the virus infection of these cells is a major cause of morbidity and mortality for transplant patients."

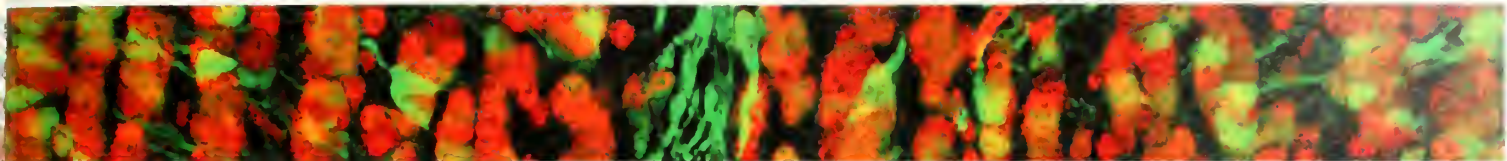
It seems Herpes is fond of stem cells. When they see these cells, they attack, resulting in a disease known as graft versus host disease (GVHD) in bone marrow transplant recipients. Aurelian, who has been NIH funded since the beginning of her professional life, got a three-year \$200,000 a year grant from the Maryland Stem Cell Research Fund to prove, through a clinical trial, her conviction that the disease is caused by Herpes infected stem cells, and that it is Herpes, not GVHD as currently defined, that is the culprit.

"Presently, we wait three days after transplantation, and if Herpes is activated, the patient is given an anti-viral



Her work involves putting genes in cells, and is aimed at treating diseases from brain cancer to alcoholism.

Laure Aurelian, PhD



medication," she says. But there are questions, she maintains, about the incidence of Herpes involvement, and the attendant wisdom of waiting to medicate.

Twenty patients have been tested in the trial so far, and 13 of the results have been analyzed. Aurelian hopes ultimately to have a total of 40 trial patients and expects to complete her studies in little more than a year.

The conclusions to date are about what she expected. Five patients did not develop the lesion. Of the eight who did, she found Herpes in the skin of all, and the severity of the lesions correlated with the number of Herpes-infected circulating stem cells and virus infection of the skin, not the stage of GVHD as described by pathology. She is submitting another grant application to study effective treatment modalities once final results have been evaluated.

"Decisions will have to be made regarding dosage, selected drugs, whether the drug should be administered intravenously, and possibly earlier than it is now," she says.

Perhaps the most significant aspect of Aurelian's discovery is its implication for other clinical uses of stem cells since Herpes infects these cells without exception, and any application of stem cell therapy is subject to this invasion.

Probing still another challenge, Aurelian reports she is working on ways to make better stem cells. "There are two problems associated with these cells," she says. "They don't travel well, and though they are effective in replacing bad cells once they reach the site, they are not always effective in treating the disease. This may be because not enough of them get to the site, or because they are not that rugged."

She has become one of many researchers bent on creating so-called "super stem cells." Her method is different from most however. Instead of taking other human genes and putting them into stem cells, she is using a gene she has been working with all her life—her friend and arch enemy, the Herpes virus gene. She says clinical trials have shown that, through manipulation, the gene can protect the brain from neuro-degeneration. In collaboration with the department of neurology, she is now putting the gene into stem cells to see if this will alter their ability to survive, go to a site and eliminate a lesion. "It's what I call my exciting expedition," Aurelian says hopefully.

In commenting on the strength and diversity of research within the center, Civin says the work being done by founding members and many others at the university strikes at the core of a biomedical mind set that is mea-



Cells from the skin can be readily grown and expanded; so they can be manipulated and made into stem cells.

Richard L. Eckert, PhD

sured, not by published papers, but by benefits to patients and community health.

He looks ahead to the first clinical stem cell trials for spinal cord paralysis authorized by the Federal Drug Administration's limited clearance of Geron's investigational drug, GRNOPCI1. When those trials are finally underway, some of the first patients likely will be treated in the Shock Trauma Center.

Looking only Skin Deep

From the point of view of a stem cell scientist, skin is a wonderful source, according to Richard L. Eckert, PhD, professor and chair of biochemistry and molecular biology.

"It's accessible and plentiful," he says. "Cells from the skin can be readily grown and expanded; so they can be manipulated and made into stem cells."

Eckert says the fact that the skin has stem cells has been known for some time, but the ability to do something with them has only emerged in the last two years. His lab, in collaboration with colleagues at the University of Iowa, put a stem cell maintenance protein, OCT-4, into mouse cells, and by treating them with a medium, turned them into neurons. The researchers now are working to transfer their methodology to human cells. The hope is that the cells will become multi-potent, capable of becoming several different types of cells.

"We're in the final stages now," he explains. "We're actually doing demonstration experiments, changing the lineage from skin cells to neurons."



In early development ventral migrating stem cells (green) distribute in a shower into the basal brain (red).

Image courtesy of Dr. Adam C. Puche from J. Comp. Neurol. 476:290-300

Eckert, also a founding member of the center with a major grant from the Maryland Stem Cell Research Fund, has been continuously funded as a principal investigator since 1989, and currently is PI on several NIH grants. He holds two US patents.

In essence, he is taking a cell that wants to be a keratinocyte or skin cell, and forcing it, with the protein OCT-4, to become a multipotent cell. He then “tricks” it into becoming a neuron.

“Neurons are only the first step,” Eckert says. “The major thrust is to be able to make other cell types. We’ve already been able to make blood cells. Our hope is to make cells that can be therapeutic, such as those that might be used for replacement in neurodegenerative disease and other illnesses in which a properly functioning cell is necessary.”

Still another application of Eckert’s research is the derivation of lines from patients with certain diseases; so that the genome, which will be changed in the diseased cell, can then be studied.

Eckert’s recent work is yielding considerable attention as few people realized until recently that epidermal cells could be manipulated to make stem cells. However, he has been using skin cells scientifically for 20 years. When he was at Harvard, the lab in which he trained was the first group to take a small piece of skin from the body and expand it to other body surfaces in about three weeks. The process was used to treat a group of children with third-degree burns all over their bodies. Skin was taken from under the arm where it hadn’t been damaged, and was expanded as sheets of skin to cover the burned surfaces.

“That science has launched this next phase of the technology, and has led us into transforming stem cells into other cell types,” he says. “It’s a big move.”

Possibly the greatest misconception people have about stem cell research is that its sole purpose is transplantation. Civin says, “The truth is that, even if we never transplanted a cell, there would be unlimited benefits to be gained from our research.” He adds that, by studying normal blood development, genes that are mutated in cancer are identified, and these genes become targets for therapy. So the cells themselves, even if they never are used explicitly for treatment, are valuable in discovering the means to treatment.

“For instance, after we first purified blood-forming cells, we wanted to find out what made them tick,” he explains.

“We identified an important molecule that is mutated in leukemia. Then we found once again that cancer is smart and, in many cases of acute leukemia, corrupted this key process by mutating or turning the gene on at high levels. This made the stem cells divide and survive better, and led to the conversion of normal stem cells into leukemia cells. With this information, it was possible to develop drugs targeted directly to the molecular problem, the mutation of this gene in leukemia.”

Civin argues the best way to treat any disease is through prevention. He also agrees that prevention is one of the most difficult of all scientific objectives to achieve. However, he perceives that stem cells will play a major role in prevention in the not-too-distant future.

“We know that a mutation in a certain part of a gene becomes part of the mechanism by which cancer happens,” he says. “Now we can look for agents in the environment that cause those precise mutations. These kinds of studies are extremely active here at our center, and are among the most exciting, perhaps the most challenging, and certainly among the most important to the future of medicine.”

Founders of the University of Maryland Center for Stem Cell Biology and Regenerative Medicine

School of Medicine Faculty

Gorgun Akpek, MD
Aergei Atamas, MD, PhD
Laure Aurelian, PhD
Alexey Belkin, PhD
Angela Brodie, PhD
Richard Eckert, PhD
Shengyn Fang, PhD
Ricardo Feldman, PhD
Paul Fishman, MD, PhD
Nancy Fossett, PhD
Da-Wei Gong, MD, PhD
Anne Hamburger, PhD
Feng Jiang, MD, PhD
David Litwack, PhD
Zhenqiu Liu, PhD
Stuart Martin, PhD
Margaret McCarthy, PhD

Mervyn Montiero, PhD
Sarah Netzel-Arnett, PhD
Elizabeth Powell, PhD
Adam Puche, PhD
Yun Qiu, PhD
Jean-Pierre Raufman, MD
David Scott, PhD
Huakun Xu, PhD
Steven Zhan, PhD
Li Zhang, PhD

University of Maryland College Park,
Department of Bio-Engineering
John Fisher, PhD

University of Maryland Biotechnology
Institute
Mariusz Karbowski, PhD



**He thinks his
playing days are over.**

What he doesn't know is that University of Maryland Orthopaedics, where they handle the most complicated joint replacement surgeries, will replace his hip. He doesn't know that they offer a comprehensive approach from an experienced team of orthopaedic surgeons, anesthesiologists, nurses, physical therapists and occupational therapists.

He hasn't learned that they'll be with him through his post-surgery rehabilitation and recovery, or that while he may play differently, he'll definitely play again.



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Official Medical Team



Appointments to National Organizations



Maria Baer, MD



Ivana Gojo, MD

Maria Baer, MD, professor, department of medicine and program in oncology, will serve as the principal investigator of the Myeloproliferative Disorders Research Consortium (MPD-RC) at the University of Maryland, while **Ivana Gojo, MD**, associate professor, and **Saul Yanovich, MD**, professor, both from the department of medicine and program in oncology, will serve as co-investigators. The University of Mary-

land Marlene and Stewart Greenebaum Cancer Center has become a member of the MPD-RC, an international, multi-institutional non-profit consortium funded by the National Cancer Institute and set up to coordinate, facilitate and perform basic and clinical research investigating the genetic and cellular mechanisms of the Philadelphia chromosome negative myeloproliferative disorders. Two MPD-RC clinical trials have been opened at the University of Maryland: A phase I/I trial of the JAK2 inhibitor CEP-701 (Lestaurtinib) in myelofibrosis, and a phase II study of fludarabine-based conditioning for allogeneic stem cell transplantation for myelofibrosis.

Claudia Baquet, MD, MPH, professor, department of medicine, and associate dean for policy and planning, was appointed by the director of the National Cancer Institute as a member of subcommittee H, clinical group for a term ending June 30, 2013. Baquet was selected due to her demonstrated competence evidenced by the quality of her research accomplishments, publications in scientific journals and other achievements and honors. Subcommittees make recommendations to the National Cancer Advisory Board and survey the status of research in their respective fields of science.

Carol Carraccio, MD, MA, professor, department of pediatrics, was selected by the Federation of Pediatric Organizations (FOPO) as its director of the initiative for innovation in pediatric education. FOPO noted that Carraccio brings an impressive resume in graduate medical education and is an innovative educator. This appointment, which began in May 2009, also recognizes her contributions to the development of the learning portfolio for the accreditation council for graduate medical education.

Debra Counts, MD, associate professor, department of pediatrics, was elected to continue as a member of the executive committee of the American Academy of Pediatrics Section on Endocrinology. Her new term began in November 2009 and will extend through the close of 2012. Counts' appointment was in recognition of her efforts toward the section on endocrinology's mission of educating pediatricians.



Richard Eckert, PhD

Richard Eckert, PhD, professor and chair, department of biochemistry & molecular biology, was elected to the American Society for Biochemistry and Molecular Biology Public Affairs Advisory Committee for 2009.



Mary McKenna, PhD

Mary McKenna, PhD, associate professor, department of pediatrics, has been appointed as a handling editor for reviews for the *Journal of Neurochemistry*. Appointees are selected based on their international recognition for expertise in the field of brain energy metabolism and neurochemistry as well as experience as an editor. McKenna will serve a two-year appointment.

Scott M. Thompson, PhD, professor, department of physiology, has been appointed as a member of the board of scientific counselors for the National Institute of Alcohol Abuse and Alcoholism for the term July 1, 2009, to June 30, 2013.

Awards & Honors

Amber Beitelshes, PharmD, MPH, assistant professor, department of medicine, received the 2009 American College of Clinical Pharmacy Cardiology Practice Research Network Junior Investigator Award. This award recognizes outstanding early career research in the area of cardiovascular pharmacotherapy.

Misbah Khan, MD, MPH, clinical professor, department of pediatrics, was presented with a lifetime achievement award from the Maryland Chapter of the American Academy of Pediatrics at their annual awards dinner in Baltimore in September 2009. She was honored with this well-deserved award because of her tireless dedication and devotion to the children of Maryland.

Department of Medicine Occupational Health Program was recently designated a World Health Organization Collaborating Center in Occupational Health. This designation recognizes existing collaborations in capacity building and expert consultations on occupational health topics requested by the Americas Ministries of Health and provided by collaborating center partners. In June 2009, **Joanna Gaitens, PhD, MSN, MPH**, assistant professor, department of medicine, and **Melissa McDiarmid, MD, MPH**, professor, department of medicine, and director, occupational health program, provided training to healthcare leaders in Georgetown, Guyana, on hospital hazards and preparation for pandemic influenza at the invitation of the Guyanese Ministry of Health.

Elijah Saunders, '60, professor, department of medicine, received the living legend award from Associated Black Charities (ABC). He was recognized at ABC's annual fundraising gala, held in Baltimore in June 2009, for his philanthropic contributions to the field of medicine.

Events, Lectures & Workshops

Nana S. Amiridze, MD, PhD, assistant professor, department of diagnostic radiology & nuclear medicine, and **Ribal S. Darwish, MD**, assistant professor, department of anesthesiology,



Nana S. Amiridze, MD, PhD

siology, presented "Hemodynamic Instability and Asystole during Treatment of Intracranial Dural AVF and CCF with Onyx" at the 10th Congress of the World Federation of Interventional and Therapeutic Neuroradiology in Montreal, Canada, in June 2009. At the same congress, Amiridze and Darwish were among the presenters of "Brain Perfusion Abnormalities in Patients with Compromised Venous Outflow."

Angela Brodie, PhD, professor, department of pharmacology & experimental therapeutics and program in oncology, gave a plenary lecture entitled "Aromatase and Breast Cancer" at the Endocrine Society 2009 annual meeting in Washington, DC, in June 2009.



Angela Brodie, PhD

Kenneth H. Butler, DO, associate professor, department of emergency medicine, was an invited speaker at the Third International Congress of the Polish Society for Emergency Medicine, held in Wroclaw, Poland, in June 2009. He served as course director for the pre-conference advanced airway management course and presented a lecture on rapid-sequence intubation.

Joana Carneiro da Silva, PhD, assistant professor, department of microbiology & immunology and institute for genome sciences, presented a lecture entitled "Apicomplexan Parasites: A



Joana Carneiro da Silva, PhD

Model System for Disease and for Evolutionary Genomics" at the Gordon Research Conference on Evolutionary & Ecological Functional Genomics, in Tilton, N.H., in July 2009

Yen-Pei Christy Chang, PhD, assistant professor, department of medicine, was an invited speaker, presenting her findings on STK39, a novel hypertension susceptibility gene, at the Institute of Biomedical Sciences Academia Sinica, in Taipei, Taiwan, in March 2009, and for the department of human genetics at the University of Michigan and the 2009 World Congress of Nephrology in Milan, Italy, in May 2009.



Yen-Pei Christy Chang, PhD

Steven J. Czinn, MD, professor and chair, department of pediatrics, was the invited plenary session speaker at the 15th International Workshop on Campylobacter, Helicobacter and Related Organisms (CHRO) held in Toki Messe, Japan, in September 2009. He presented "Vaccine Development to Prevent or Eradicate *H. pylori* Infection: An Update."



Steven J. Czinn, MD

Michael Donnenberg, MD, professor, Department of Medicine, presented "Enteropathogenic *E. coli* EspF and the Mitochondrial Death Pathway" at the 109th General Meeting of the American Society for Microbiology in Philadelphia in May 2009.



Michael Donnenberg, MD



Amy M. Fulton, PhD

Amy M. Fulton, PhD, professor, department of pathology, gave a presentation entitled "Alternative Strategies to Target the COX-2 Pathway to Prevent Cancer Metastasis" during

the cancer/tumor invasion and metastasis and drug discovery session at the Second Annual World Cancer Conference held in Beijing, China, in June 2009. The international conference focused on the latest advancements in cancer treatment and research and featured speakers from around the world to address current issues in cancer, from basic research to clinical therapy.

Katia Kontrogianni-Konstantopoulos, PhD, assistant professor, department of biochemistry & molecular biology, presented "Obscurin: A Muscle Giant That Regulates Sarcomere and Membrane Assembly" at the American Society for Cell Biology 48th Annual Meeting for the Special Interest Group Muscle Cytoskeletal Protein Assembly in Normal and Diseased Muscles in December 2008 in San Francisco. In addition, she presented "HAX-1: A Multifaceted Protein with Emerging Roles in Ca Cycling, Apoptosis and Cardiac Function" at the International Society for Heart Research Meeting in Baltimore in May 2009.



Katia Kontrogianni-Konstantopoulos, PhD

Ping Lei, PhD, graduate research assistant, **Fred M. Moeslein, MD**, assistant professor, and **Raj Shekhar, PhD**, associate professor, all from the department of diagnostic radiology & nuclear medicine, reported on "Real-time Tracking of Liver Motion and Deformation Using Fine Needle" at the International Congress and Exhibition on Computer



Raj Shekhar, PhD

Assisted Radiology and Surgery in Berlin, Germany, in June 2009. At the same meeting, Shekhar discussed a poster presentation entitled "An Image Registration-based Approach for Continuous Volumetric CT-guided Interventions" which he had co-authored

Kevin D. Pereira, MD, MS, professor, department of otorhinolaryngology-head and neck surgery, was an invited speaker, presenting

faculty

"Tracheostomy in Pre-term Infants," at the International Federation of Otolaryngology Societies, in Sao Paulo, Brazil, in June 2009.



Christopher Plowe, MD, MPH

Christopher Plowe, MD, MPH, professor, department of medicine and center for vaccine development, participated in the National Institute of Allergy and Infectious Diseases (NIAID) consultation with

the outside community on developing clinical research infrastructure for infectious diseases: 2010-2020, in Bethesda, Md., in July 2009. This consultation convened some of NIAID's most experienced advisors and key staff to examine critical issues relevant to clinical research infrastructure, and to consider which models for funding and conducting clinical research best meet NIAID's goals for the next decade. In addition, Plowe presented "Vaccine-Resistant Malaria" at the Seattle Biomedical Research Institute in Seattle in July 2009.

Eliot L. Siegel, MD, professor, department of diagnostic radiology & nuclear medicine, delivered the AGFA Mayneord Lecture on "Imaging Informatics: The Key to Success for the Future of Radiology" and a keynote lecture entitled "The Top Five Elements in Achieving a Full Clinical PACS" at the joint congress of the British Institute of Radiology, the College of Radiographers, the Institute of Physics and Engineering in Medicine and the Royal College of Radiologists in Manchester, England, in June 2009. Siegel also moderated a session on his keynote lecture topic.

Books/Textbook Publications

Richard Colgan, MD, associate professor, department of family & community medicine, authored *Advice to the Young Physician: On the Art of Medicine*, released in October 2009 by Springer Publishing. Colgan authored the

book with the intent of revealing how to make the transition from technician to healer. He believes that the book would be a valuable supplemental reading to the medical student curriculum on medical humanism. The book has been favorably reviewed by medical educators, residents and students.

Steven C. Cunningham, MD, chief resident, department of surgery, wrote a children's book of art and poetry entitled *Dinosaur Name Poems*, recently released by Three Conditions Press. Children ages four to 12 are the target audience for this richly illustrated, bilingual (English/Spanish) book, including an



Steven C. Cunningham, MD

extensive illustrated glossary of technical terms and prehistoric creatures. It is notable for its historic correctness and has the rare distinction of being a Paleontological Research Institution-approved book. This designation was given to the book's content and illustrations by noted author and paleontologist Dr. Richard A. Kissel, director of teacher programs at the Paleontological Research Institute and its Museum of the Earth in Ithaca, N.Y., who reviewed the book. Cunningham is also the author of multiple articles on medical nomenclature.

Linda Lewin, MD, clinical associate professor, department of pediatrics, published a manuscript "Improving Education in Primary Care: Development of an Online Curriculum Using the Blended Learning Model."

Stuart E. Mirvis, MD, professor, **Kathirkama Shanmuganathan, MD**, professor, **Lisa A. Miller, MD**, assistant professor, and **Clint W. Sliker, MD**, assistant professor, all from the department of diagnostic radiology & nuclear medicine, authored *Emergency Radiology, Case Review Series*, published by Elsevier.

Kevin D. Pereira, MD, MS, professor, department of otorhinolaryngology-head



Richard Colgan, MD

and neck surgery, is co-editor of a newly published textbook in pediatric otolaryngology entitled *Pediatric Otolaryngology for the Clinician*, a user-friendly resource for practicing general otolaryngologists, pediatricians, and family practice physicians.

Elijah Saunders, '60, professor, department of medicine, contributed the foreword in *Spirituality and Medicine*, a book authored by G.F. Hodges and H.B. Belton and published by AuthorHouse in Bloomington, Indiana, in May 2009.



Kevin D. Pereira, MD, MS



Elijah Saunders, '60

Grants & Contracts

Stephen B. Liggett, MD, professor, departments of medicine and physiology, received a five-year \$1.8 million grant from the National Heart, Lung and Blood Institute for his work on the genomics of G-protein coupled receptor signaling in the lung.

The title of his grant is "Basis of Variability of Lung GPCR Signaling."

Iris Lindberg, PhD, professor, department of anatomy & neurobiology, received two grants from the National Institute of Diabetes and Digestive and Kidney Diseases—a four-year \$1.5 million



Stephen B. Liggett, MD



Iris Lindberg, PhD

R01 entitled "Control of Peptide Hormone Biosynthesis by PC2 and 7B2" and a two-year \$412,000 R21 grant entitled "Identifying New Peptide Hormones." In addition, Lindberg received a four-year \$1.2 million from the National Institute on Drug Abuse for a Eureka project entitled "De-Orphanizing the Peptidome."

A-Lien Lu-Chang, PhD, professor, department of biochemistry & molecular biology, received a five-year \$1,377,045 research grant from the National Cancer Institute for her work entitled "Repair of Oxidatively Damaged Guanines."



A-Lien Lu-Chang, PhD



Myron Levine, MD

Myron Levine, MD, professor, department of medicine, and director, center for vaccine development, received a four-year \$10,499,702 Gates Foundation Global Health Grant for his work entitled

"Efficacy of Maternal Immunization with Influenza Vaccine in Preventing Influenza in Infants and Mothers in Mali, West Africa." This award funds a project that proposes to provide quantitative information on the burden of influenza among pregnant women and young infants in Mali, West Africa, and on the potential benefits to mothers and their young infants that can be derived from immunizing women with influenza vaccines late in their pregnancy.

Dudley K. Strickland, PhD, professor, departments of surgery and physiology, and director, center for vascular and inflammatory diseases, received a five-year \$1,875,000 grant from the National Heart, Lung and Blood Institute for his work entitled "Regulation of Factor VIII Levels and Activity



Dudley K. Strickland, PhD

by Members of LDL Receptor Family."

Marcelo B. Sztein, MD, professor, department of pediatrics and center for vaccine development, received a five-year \$14,786,549 National Institutes of Health Research Project Cooperative Agreement (U19) entitled "Mucosal Immunity, Vaccines and Microbiota Interplay in Humans and Animal Models" to establish a cooperative center for translational research on human immunology and biodefense (CCHI) at Maryland. Research at the CCHI will focus on furthering our understanding of the protective immunological mechanisms that are elicited upon oral immunization in the gastrointestinal tract microenvironment. Moreover, the CCHI team of investigators will conduct pioneering studies on the interactions between the local intestinal microbiota and the host immunity following oral vaccination. Further goals of this grant involve the development of novel technologies to advance and accelerate vaccine development in humans. The award provides \$2 million in direct costs per year and also involves **Claire Fraser-Liggett, PhD**,



Claire Fraser-Liggett, PhD



Bruce Greenwald, '87

PhD, associate professor, department of biochemistry & molecular biology, received a



Marcelo B. Sztein, MD



Gerald Wilson, PhD



Jeffrey A. Winkles, PhD

five-year \$1,384,404 research grant from the National Cancer Institute for his work entitled "Mechanisms Directing Oncoprotein and Cytokine mRNA Decay."

Jeffrey A. Winkles, PhD, professor, departments of surgery and physiology and center for vascular and inflammatory diseases, received a four-year \$1,245,000 grant from the National Cancer Institute for his work entitled "TWEAK-

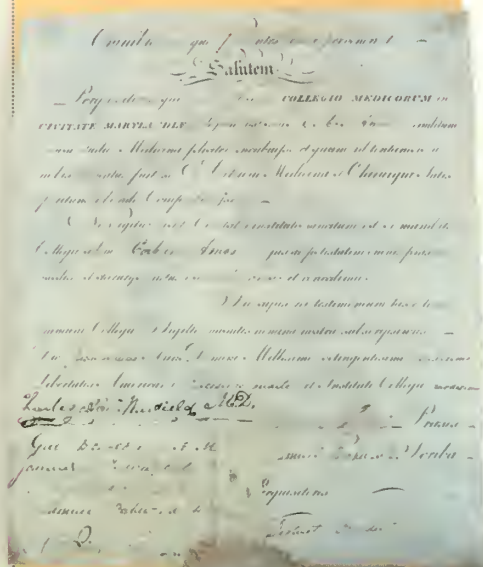
Fn14 Signaling in the Tumor Microenvironment." The first two years of this grant award are funded by the Obama administration's American Recovery and Reinvestment Act. Additionally, Winkles received a one-year \$112,449 grant from the department of defense breast cancer research program for his work entitled "Targeted Therapy of Fn14-Positive Breast Tumors Using a TWEAK-Cytotoxin Fusion Protein or Noncovalent Complex" and a five-year \$337,500 subcontract award as a co-investigator on a National Institute of Neurological Disorders and Stroke grant entitled "TWEAK-induced Ischemic Neuronal Death."

Aiping Zhao, MD, assistant professor, department of medicine and mucosal biology research center, received a five-year \$1.1 million R01 grant from the National Institute of Diabetes and Digestive and Kidney Diseases for his project entitled "Novel Cytokine Regulation of Gut Function and Inflammation"



Aiping Zhao, MD

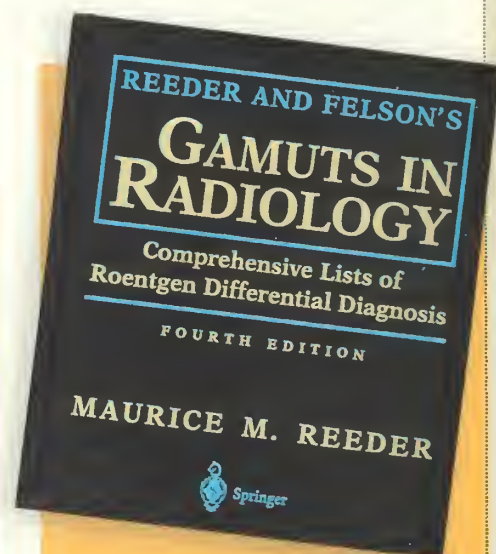
200 Years Ago



In April 1810, the medical school graduated its first class of five students. They were believed to be listed among the names of those licensed to practice by the faculty. The names included Francis Cooksey, George T. Gunby, James Orrick, William H. Dorsey, and either Robert Armstrong or Handy Harris Irving.

110 Years Ago

In 1900, John C. Hemmeter, class of 1884, published *Diseases of the Stomach*. As professor of physiology at Maryland, he limited his practice to diseases of the stomach and intestines, and his research and writings on the subject earned him an international reputation. He originated an instrumental method of investigating the duodenum by intubation in the human patient, and was the first to visualize and diagnose a gastric ulcer with the X-ray by means of an opaque meal.



35 Years Ago

In 1975, Maurice M. Reeder, class of 1958, co-authored *Gamuts in Radiology*, the first reliable text dealing with differential diagnosis. He was chairman of the department of radiology at the University of Hawaii from 1978 to 1997.

recollections

A look back at America's fifth oldest medical school and its illustrious alumni

student Activities

Phonothon Volunteers Treated to Reception

The Medical Alumni Association expressed its gratitude to more than 100 student phonothon volunteers by treating them to a reception at Mother's Grille in Federal Hill. The event was held on November 10. Students and alumni raised \$125,000 in seven nights of calling during the month of October.

Class of 2013 Receives White Coats

The white coat ceremony, a tradition started at Maryland in 1997, was held on November 5 for the first-year students from the class of 2013. The coats are distributed by faculty to welcome their new colleagues to the profession of medicine.

"The white coat ceremony today symbolizes the beginning of your privileged journey into medicine," said SOM dean **E. Albert Reece, MD, PhD, MBA**. "It is a lifelong journey of learning and healing. I charge you today to do the following: Walk well on this time-honored path. The white coat is just a symbol. What is most important is who is wearing it."



Grace Kim, '11, Elizabeth Le, '11, Brian Shiu, '11, Kyle Hatten, '10, and Peter MacArthur, '11 at the appreciation event for phonothon volunteers

After being coated, students recited an oath acknowledging their acceptance of the obligations of the medical profession. They also added their signatures to the school's honor registry, a leather-bound volume signed by students in their first year, in which they pledge to maintain integrity throughout their years in medicine.

"It's an accomplishment," says **Brandon Haugh** of his new white coat. "Completing the course structure and development was our first milestone of medical school, and now

it feels like we belong here."

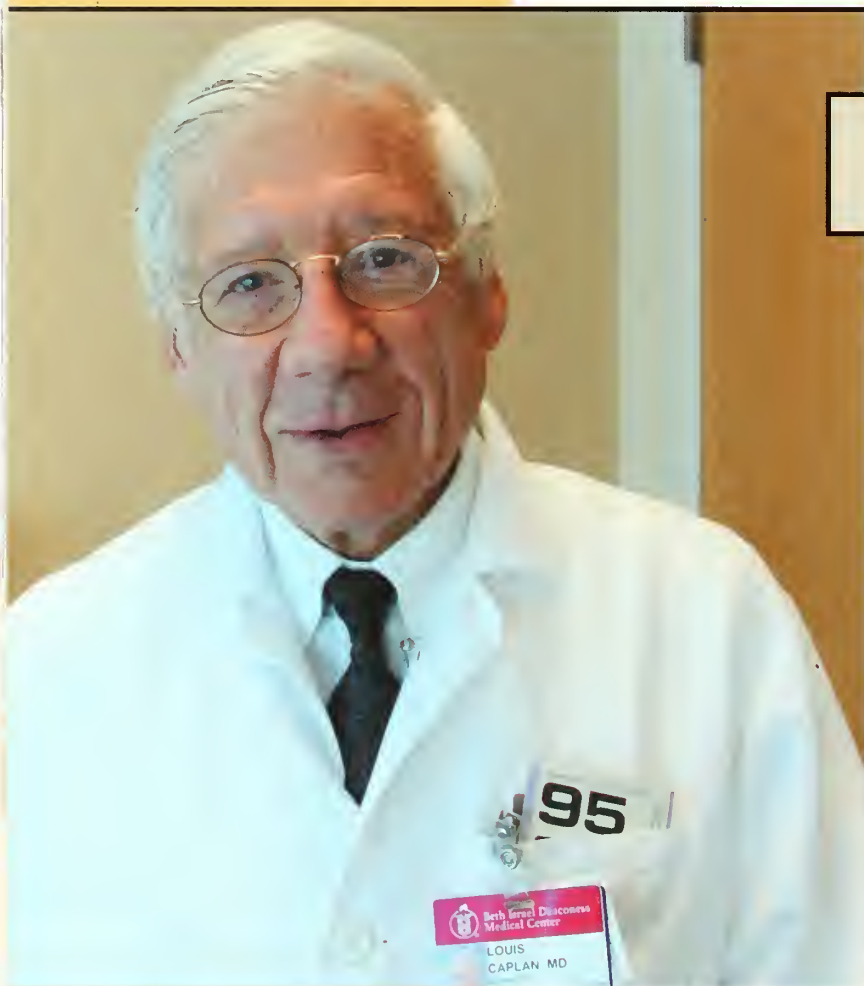
For the past several years, the white coat ceremony has been incorporated into a much larger program entitled "Medical Family Day," which encourages participation of family as well. 🏛️

Kevin Affum signs the honor registry with associate dean Milford M. Foxwell Jr., '80, supervising.



The Class of 2013

Pathfinder and Physician



Louis R. Caplan, '62

In 1962, Louis R. Caplan, valedictorian, summa cum laude graduate, and future world-class stroke authority was advised that, if he wanted to make a living in neurology, he would have to add psychiatry to his practice.

"There were few neurologists in those days," he says. "I was the second to join the faculty at Beth Israel Hospital in Boston in 1970, and there were many who questioned why it was necessary to have two neurologists on staff. "Today, there are 55!"

Caplan, who is board certified in medicine as well as psychiatry/neurology, is professor of neurology at Harvard Medical School and senior neurologist at Beth Israel. He was feted by his alma mater recently with a full-day symposium and banquet commemorating a career that prompted the department of neurology to name the new Louis R. Caplan Stroke Service in his honor. His path to this celebratory event led from internship and residency in medicine at Boston City Hospital to a residency in neurology at Harvard, and a fellowship in cerebrovascular disease at the Massachusetts General Hospital.

William Weiner, MD, chair of the department of neurology, has been a colleague and friend of Caplan's for many years. "Even beyond his stature as an eminent alum and internationally regarded stroke expert, Dr. Caplan has made enormous contributions to our field through his training of young doctors," Weiner says. "He continues to challenge them to explore the complexities of our field, and to think for

Stroke happens quickly, and it devastates people. A doctor who knows the field can do enormous good. What more could any physician want?

themselves, rather than being swept up with the tide."

Considered by many to be the world's leading authority on stroke treatment (a distinction he quickly dismisses), Caplan says he loves teaching, but his methods are of the unconventional variety. "My own bias is that didactic teaching is less important than mentoring with residents, taking them with me on rounds, and talking about cases," he says.

His writing and global activities alone are convincing evidence of teaching excellence well above the norm. He is the author or editor of 35 books, more than 600 articles and chapters in medical journals and books, and he has trained 60 stroke fellows, including 28 international fellows. He has been on the editorial boards of 29 medical journals, has delivered 35 named lectureships, among them the 2000 Thomas Willis Lecture for the American Heart Association. In addition, he is an honorary member of the German, Australian and Hong Kong Neurological Societies and the Korean Stroke Society.

Almost from the beginning, the young Caplan was interested in stroke, then primarily treated by internists. He saw the specialty as the merger of his own two disciplines—neurology and internal medicine, and he debated, in his mind, who should be caring for stroke patients. At the time, there wasn't much that could be done for these patients. Stroke was considered a disease of the elderly. Past a certain age, people with serious degenerative illness had strokes and died.

"At that time, we couldn't see the brain. There were no CTs or MRIs," he says. "All we could do was x-ray the skull. Now we have technology to rapidly and safely study stroke patients. We can perform accurate vascular studies. We know more about blood and coagulation, and much more about the heart using echocardiography. There are many more people recording information on stroke through stroke registries that deal with sub types of the disease, how they present, and all the clinical findings related to brain function. But all that has evolved over the past 30 years."

So what does a physician who has dedicated his work to attacking stroke do in the total absence of therapy guidelines and technology? One might suggest building a stroke registry except that there was little in the way of computer technology in 1970, and virtually no finite history of stroke to feed into one. Nevertheless, that's what Caplan did. He came up with the idea and co-developed the Harvard Cooperative



Caplan with wife Brenda

Stroke Registry, which ultimately became the first medical registry for any disease.

"I connected with a statistician at MIT who knew as much about medicine as I knew about computers," Caplan says. "We had to start with ballpark figures. Working obsessively to design the program, we collected information on almost 800 pa-


tients over a number of years. When we submitted our findings to the *New England Journal of Medicine*, it was disappointing to receive their reply arguing that no one understood computers, and that computers would never have a place in medicine."

Fortunately, the National Institutes of Health had a different vision on computers in medicine. They stepped in and sponsored what became the National Stroke Data Bank.

Caplan is a man who clearly enjoys what he does, especially consulting on complex cases. He has been called to consult on strokes incurred by world leaders and the famous in almost every walk of life. When Ariel Sharon had a stroke, it was Caplan who was involved long distance in all the decisions regarding his care.

Asked what were the primary building blocks to his global success, Caplan credits being trained by giants at the University of Maryland, as well as at Harvard. Beyond that he reckons it was hard work and a lot of luck that guided his career. Those who know him well have another slant to his success story, however. They claim he is more than a superlative clinician with a worldwide patient roster.

Barney J. Stern, MD, professor of neurology and director of the clinical stroke program, says, "As a doctor and as a person, Louis Caplan has had a strong influence on many of us in neurology because of his advocacy for excellence and dedication to patient care."

As for Caplan, he tells young people today that medicine is still the best career, and neurology the best discipline. "I believe neurology provides the most intellectual stimulation, and the best opportunity to help patients," he says. "Stroke happens quickly, and it devastates people. A doctor who knows the field can do enormous good. What more could any physician want?" 



Enhancing Healthcare for Boston's Homeless

Jessie M. Gaeta, '98

Above: Gaeta examines a homeless patient at a Boston Health Care for the Homeless Program clinic in Boston.



Ever since becoming a physician 12 years ago, Jessie M. Gaeta's work has focused on society's hard luck cases. Her patients are addicted to drugs, have been sexually abused, or suffer from mental illness. They are tragic cases of people sleeping under highway bridges, in abandoned houses and in crowded shelters. They live in poverty, despair, and some on the brink of death.

Gaeta's patients are typically men who die at an average age of 47. They are the most chronic homeless in Boston. "These are unspeakable life stories that we are witnessing," says Gaeta, a 1998 graduate. "It is devastating."

Gaeta, age 37, co-founded Home & Healthy for Good's Housing First program, operated under the auspices of the Massachusetts Housing and Shelter Alliance where she is a physician advocate. The program's mission, while unconventional, is to find permanent housing first for the chronic homeless and then treat their illnesses.

Since its launch in 2005, Housing First has seen strong results and has not only saved the state thousands of dollars in hospital and emergency care bills per patient, but has kept many chronic homeless off the streets. Of the 400 homeless patients in the program, 86 percent continue to maintain their residence, reports Gaeta, who is also medical director at the Barbara McInnis House of Boston Health Care for the Homeless Program.

Gaeta says that the average cost per person in the program has fallen nearly four fold to \$8,500 a year from \$33,000. It has been so successful that the state has doubled to \$1.2 million its funding for the project. "It has had this tremendous impact on people throughout the state," Gaeta says. "A lot of people predicted this was never going to work."

[ALUMNA PROFILE]

Chronic homelessness is a drain on medical systems across the country. In Massachusetts alone there are about 15,000 homeless with nearly half in Boston. The most costly are the chronic homeless or people who have lived on the street for extended periods of time and have a disability. They represent about 10 percent of the homeless and consume more than half the resources.

Data collected by James O'Connell, MD, founder of the Boston Health Care for the Homeless Program, revealed that 119 street dwellers accounted for 18,384 emergency room visits and 871 medical hospitalizations over a five-year period. The average annual health care cost for individuals living on the street was \$28,436 compared to \$6,056 for individuals who obtained housing, according to the study.

"You would think that this group of people would have high instances of hypothermia, frostbite and TB," Gaeta says. "But what homeless people are suffering and dying from is cancer, heart disease and high blood pressure."

These diseases appear in the homeless roughly 20 years ahead of the general population, according to Gaeta. The homeless she works with have complicated medical histories, and their mortality rate is five times higher than the general population.

States have traditionally dealt with the homeless by moving them into shelters or emergency housing with other homeless. Once sheltered, they are treated for their addictions and mental illnesses. If all works out, they are moved into transitional housing. But administering medication on a consistent basis with homeless patients is challenging.

"I grew increasingly frustrated with the trouble I was having trying to treat chronic illness in this (shelter) setting," Gaeta says. "I felt it was just patchwork to prescribe insulin to a diabetic patient who was living in a shelter. I was really having a hard time managing chronic disease."

Her program takes the old model and stands it on its head, Gaeta says. Housing, she says, is the foundation upon which everything else is built upon. If people don't have a home they cannot rest and heal properly; they have no place to keep food or medication, and they are at risk of theft and violence. In this program, tenants live in independent apartments that are leased, or group homes within communities. The program couples housing with services in the home. A case manager links the tenant to mainstream service, such as mental health, health care, substance abuse and vocational and life skills training.

It seems natural that Gaeta was involved in creating a program like Housing First. As a teenager, she


recognized the link between income and healthcare. An only child, Gaeta grew up in a middle class family in Gaithersburg, Md. Her father was a photo journalist, and her mother a high school teacher. While the family had health insurance, the deductibles and co-pays were so high they squeezed the family's budget. "Even as a teenager I remember thinking about this connection between employment and one's ability to have health insurance," she recalls.

She was also influenced by her grandfather, a Rotarian, who was not only a Boys & Girls Clubs of America volunteer, but developed a scholarship fund for disadvantaged youth, and played Santa Claus at an orphanage. Her sensitivity to health care affordability and to helping the less fortunate carried through into college where she worked as a volunteer for Habitat for Humanity. One weekend she helped build a home for a homeless family. "I got active with the homeless around that age," she says.

During medical school she worked with the Medical Alumni Association on Project Feast, which serves Thanksgiving dinner to hundreds each year at the Booker T. Washington Middle School. She also helped provide healthcare to the homeless and organized volunteer projects. During her fourth year she worked as a "street doctor" in New York City. "I completely fell in love with the work," she says. "I figured out that this was exactly what I wanted to do."

After receiving a medical degree, Gaeta attended the Boston University Medical Center for internship and residency training in internal medicine. She continued her efforts to help the homeless, staffing shelters that provided healthcare. In 2001, she was named chief resident of internal medicine, and by 2005, Gaeta became physician advocate for the Massachusetts Housing and Shelter Alliance, an advocacy group. In 2009, she was named medical director of the Barbara McInnis House of Boston Health Care for the Homeless Program, a 104-bed medical respite facility that provides 24-hour medical care to homeless people.

Gaeta, who is married and has two young children, has trained herself to leave her work on the streets or in the hospital. "We see severe mental illness. We see social isolation from family, violence, extreme poverty and hunger," she says. "This is hard work. It is harder than any other kind of medical practice. The relationships are more intense."

But in the face of such despair, Gaeta hopes her work in the streets, hospitals, shelters and statehouse help the people most Americans would rather forget. "I am in love with my job," Gaeta says. "And I am optimistic." 

advancement

Cryor Replaces Sharoky as Chair of BOV

Michael E. Cryor, president of the Cryor Group, was named chairman of the University of Maryland School of Medicine Board of Visitors (BOV) in December. He succeeds Melvin Sharoky, '76, who has served in this capacity since 2007.

The Cryor Group provides strategic communications counsel for

large scale private and public sector projects in the areas of technology, health care and urban development. A former chair of the Maryland Democratic Party, Cryor has served on the BOV since 1994. In 2007, he

was awarded the Gold Medal during pre-commencement convocation for exemplary service to the medical school.



Michael E. Cryor

Sharoky will remain on as a member of the BOV. He was recently appointed chairman of the board of Inmed Corporation, a biopharmaceutical company based in Richmond, Va. The former president and chief executive officer of Somerset Pharmaceuticals led the BOV through a transition phase which resulted in a more activist role for its members. He established a professorship which bears his name in 2006, and served with wife Alexias as an honorary co-chair for the school's bicentennial gala celebration in 2007.

It was also announced that David S. Penn and Daniel E. Wagner had recently stepped down from the board. Penn retired after nearly 10 years of service which included serving as chair as recently as 2004. He is



Melvin Sharoky, '76

a former managing director at Legg Mason and is currently with Janney Montgomery Scott LLC. Wagner served three terms on the board. The president of Wagner Capital Management Corporation brought a wealth of financial and business expertise to the organization and is a major benefactor. Wagner has been a regular sponsor of the Fund for Medicine Gala, and during a heartfelt farewell speech at his final board meeting he described his family's long ties with the University of Maryland as his motivation for supporting the school with time, energy and contributions. His younger brother, Arthur M. Wagner, '70, passed away in 1990.



David S. Penn



Daniel E. Wagner



More than 100 students participated in this year's phonothon.

Phonothon Nets \$126K

Alumni and students garnered \$126,506 in pledges during this year's fall phonothon in Davidge Hall. The event was held for seven nights in early October. More than 100 alumni and students volunteered their time to make calls to alumni and faculty in support of the Medical Alumni Association Annual Fund. Donors sending in their gifts before June 30 will be recognized in the FY10 honor roll, published in the fall magazine.


Twenty-First Century Gold Rush

Gold has long been treasured as a store of value due to its beauty, and because there is a finite amount in existence as opposed to the possible unlimited printing of fiat currency. So should investors transmute some of the investments in their portfolios into gold? Our view is that investors by and large should focus on retaining and growing purchasing power. This leaves us with the key question for investors: Is gold really an effective hedge against inflation?

It appears safe to say that even under the very generous definition of a decade as “short term,” gold has provided a poor hedge against inflation in the short term. Investors in gold would have actually lost purchasing power in both the 1980s and 1990s. To emphasize the devastation using a specific example, consider that investors who purchased gold at the beginning of 1982 and held it until the end of 1999—a period nearly twice that generous definition of short term—would have lost 59% of their real purchasing power.

Gold does appear to act as a long-term inflation hedge, since it retains its value relative to inflation over a long investment holding period. While gold has provided inflation-adjusted real returns over longer time periods, the results are not very compelling. The standard deviation of returns from gold over about the past 60 years has exceeded that of stocks, so on that basis the historical risk-adjusted returns are not attractive. Those buying gold in a quest to avoid the nasty price swings seen in stocks could be disappointed if history is any guide.

While we can't say what the future holds for gold, we suggest that investors resist the current gold rush in favor of alternative hedges—domestic equity, international equity, alternative investments, and Treasury Inflation-Protected Securities—against the long-term impacts of inflation. In fact, investors should not be myopic in terms of focusing solely on inflation risks because there are multiple considerations in building an effective investment portfolio. Investors should also keep in mind their future goals, liquidity considerations, income needs, and risk tolerance. In that respect, a well-diversified portfolio with an asset allocation selected to match the investor's needs is the best choice in our view.

The economic outlook is now for recovery and should provide a constructive backdrop for the markets. Despite the above reasons to be optimistic regarding future stock market returns, we remain mindful that significant challenges remain, given the baggage left over from the financial crisis. Our current recommended allocations attempt to reflect the more positive tone, while being mindful of the continued risks inherent in the market and economic outlook. Alternative asset classes should also be considered for qualified investors because they might provide an effective risk management tool for portfolios. 



This column is prepared by Doug Holthaus, vice president and relationship manager at PNC Wealth Management. He can be reached at 410-237-4590 or douglas.holthaus@pnc.com.

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1936: Morris J. Nicholson of Sun City, Ariz., keeps busy with daily activities and an occasional out-
ing, and wife Genevieve keeps him sharp
and on his toes. Nicholson looks forward to
his 100th birthday later this year.

1943D: Augustus H. Frye
Jr., of Lookout Mountain,
Tenn., reports that his retirement at 91
years of age was much too young to quit.
He was forced into retirement last year
after breaking his hip. Until that time he
had been performing knee and shoulder
arthroscopy. **1946: John R. Gamble** lives
on a farm in Lincolnton, N.C. He fishes
every opportunity he can get and enjoys
spending summers in the mountains.
Widowed now for three years, Gamble's son
is a CPA, his oldest daughter is a physician,
and youngest daughter practices law. In
addition, his grandson is in medical school
and his granddaughter is in graduate school
studying public health. **1947: E. Anne**
Mattern of Rockville, Md., continues mow-


ing her three-acre lawn with the help of her
tractor, despite having a ventricular defibril-
lator implanted last August. She keeps all
classmates in her daily prayers.

1950: H. H. Bleecker Jr., of
San Pedro, Calif., reports that
his knee is fine; his golf is poor; his fishing
is good; and his work is okay. He looks
forward to seeing everyone at the 60th re-
union in spring. **Frank Kasik** has lived at
the Oak Crest Village Retirement Commu-
nity in Baltimore for 14 years and has been
a widower since 1997. He has five children,
14 grandchildren, and 12 great-grandchil-
dren. **1952: Timothy D. Baker** of Cock-
eysville, Md., published "Indirect Costs of
Disease and Injury in Maryland." The paper
explores lost years of productivity from
premature mortality and disability which
generates an amount greater than the
direct costs of hospitalization, physician
fees, medicine, etc.—a comparison unrec-
ognized in the health care reform debate,
according to Baker. **Larry D. Egbert** of

Baltimore reports that he is out on bail
following his February arrest for working as
medical director for the Final Exit Network,
an organization dedicated to the possibil-
ity that patients can die in a manner which
they control. **1955: Paul G. Mueller** is
enjoying photography and reading history
at his assisted-living residence in Pasadena,
Md. **1956: Richard L. Plumb** of Houston
vacationed with the families of his son
and daughter last summer in the Texas hill
country. **1958: Harvey Friedlander** and
wife Lynn of Calabasas, Calif., are head-
ing for Israel in March, and in July they are
taking a Mediterranean cruise. **William T.**
Ward of Saratoga, Wyo., published two vol-
umes on Wyoming's foremost artist, Elling
William Gollings. They are entitled *Elling*
William "Bill" Gollings—A Cowboy Artist;
and *Gollings—More of the Story*.

1960: Michael J. Fellner
of New York City returned
to work after a two-year retirement. He
is teaching dermatology at Metropolitan
Hospital and running four dermatology
clinics. **Morton E. Smith** of Montclair,
N.J., delivered the Zimmerman Lecture at
the American Academy of Ophthalmology
annual meeting in October 2009. **1964:**
Edgar V. McGinley of Fernandina Beach,
Fla., passed his family medicine boards in
July 2009. **Richard G. Shugarman** of
West Palm Beach, Fla., was the 2009 recipi-
ent of the American Academy of Ophthal-
mology Secretariat Award. **1965: Barbara**
J. Bourland is happily retired in Houston.
She has beautiful twin grandsons Bradley
and Mitchell. **1966: Louis E. Grenzer**
of Cockeysville, Md., reports that his old-
est daughter Ellen recently gave birth to
triplets, and he now has 12 grandchildren.
1967: Allan S. Pristoop of Owings Mills,
Md., reports that one of his sons is a teach-
ing and attending/hospitalist at Downstate
Medical Center/Kings County Hospital in
Brooklyn, while his other son works for
the Bill and Melinda Gates Foundation in
Seattle. **1968: Morton B. Blumberg**
and wife Carol of Snowmass Village, Colo.,
announce the birth of Alexa Faith, their first
grandchild, on February 2, 2009. **Alice S.**
Tannenbaum of New York City works part

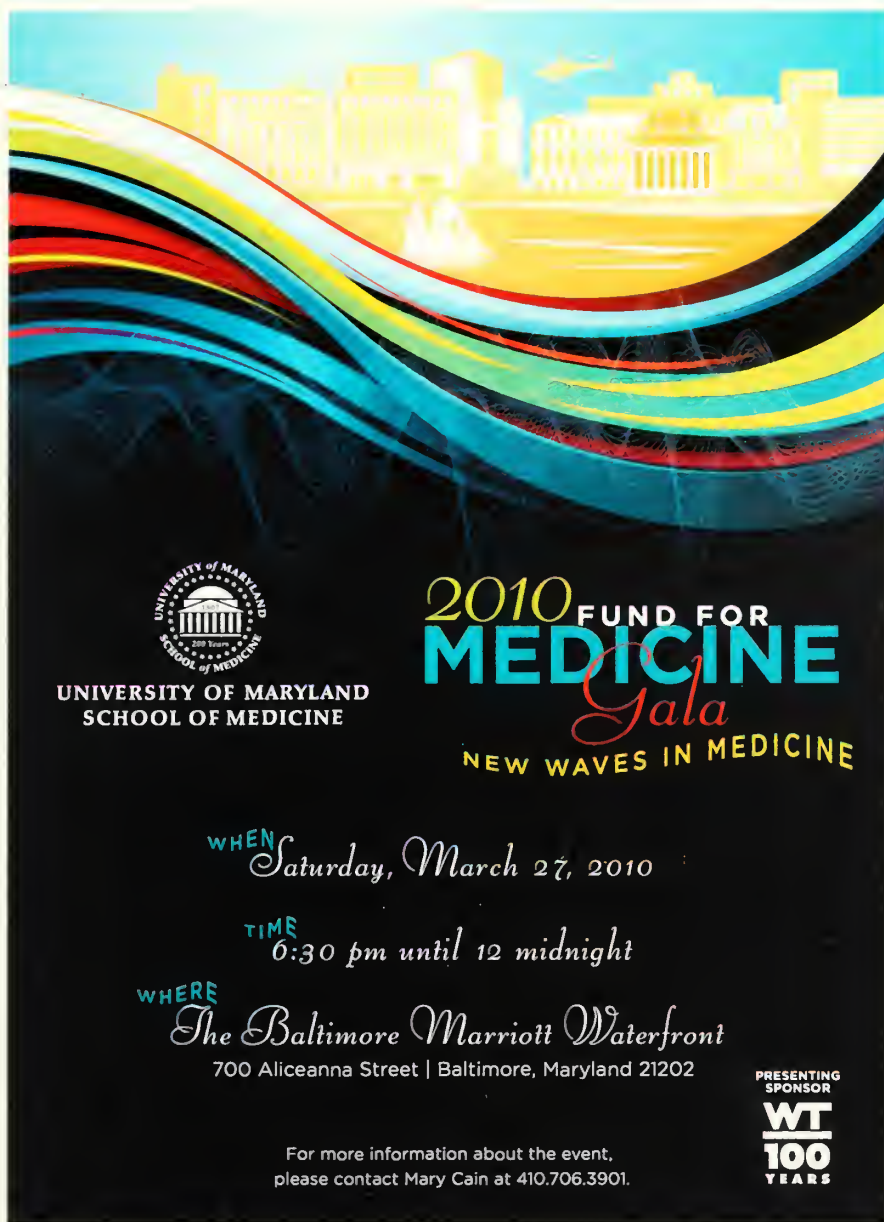
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time and is winding down as a community pathologist. She reports the birth of a new granddaughter on December 22, 2008.

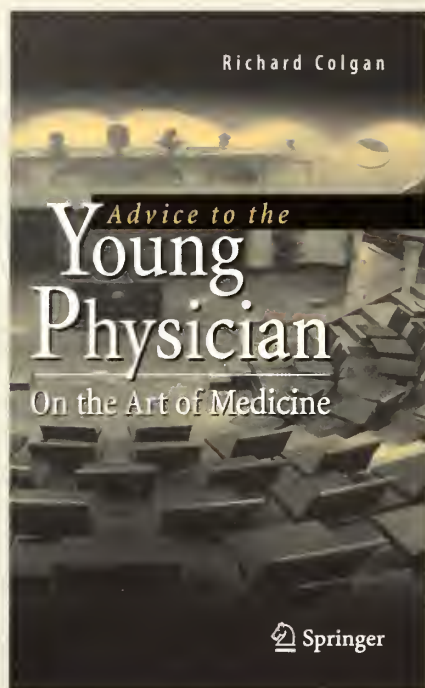
1970s **1970:** Willie A. Andersen of Charlottesville, Va., retired from clinical practice and surgery at the University of Virginia on July 10, 2009.

1971: George H. Brouillet of Ellicott City, Md., was named 2009 outstanding physician at Kernan Hospital where he serves as chief of surgery and director of its joint replacement center. **1972:** Elizabeth R. Brown of Silver Lake, N.H., retired in July 2008. **1974:** Jeffrey Deitz of Trumbull, Conn., has completed his first novel and recently published an article in

the New York Times about aggression in athletes. **1975:** Patricia Falcao of Needham, Mass., is an assistant professor in the department of psychiatry at the University of Massachusetts Medical School working in forensic mental health and addiction medicine. She is active in areas of promoting women's leadership roles and resolving health disparities through committee work with the Massachusetts Medical Society. **Andrew B. Rudo** of Owings Mills, Md., is in full-time practice and continues playing rock & roll in his band *Shrink the Deficit* with classmate **Jonathan Book** **1976:** Timothy E. Bainum of Laguna Beach, Calif., participates in yearly volunteer missions to third world countries. He is

chairman of the board and managing director for Diamond Bank in Glenwood, Ark. **Martin J. Sheridan** of Baltimore reports that daughter **Monique Husbands** will graduate from Maryland in spring. She and husband Christopher have a one-year-old daughter named Finley **1977:** **Martin I. Herman** and wife Lynette of Cordova, Tenn., greeted their first grandchild, Elissa June, on January 24, 2008. They are expecting a second in February. They also proudly announce the marriage of daughter Camille to Devin Boyle on December 20, 2009. They are approaching Herman's impending retirement with mixed feelings of trepidation and excitement. They continue to support the foundation for fighting blindness, and whenever time permits Herman is still riding his Harley Davidson. **Edward B. Mishner** of Baltimore is a grandfather, as daughter Erin gave birth to a boy on August 5, 2009. **Rona Eisen** of Bethesda, Md., is enjoying part-time office GYN and training for marathons. **1978:** **Jonathan A. Edlow** of Newtonville, Mass., had a second book published by Yale University Press. It's a collection of true medical detective stories entitled *The Deadly Dinner Party*. There are 15 "House meets Holmes"—type stories. The book is available at major bookstores and the Amazon.com website. **Ian S. Elliot** and wife Susan of Toledo, Ohio, report the birth of their first grandson, Sam Scott, on August 30, 2009 **1979:** **Bruce D. Koehler** of Temple, Tex., reports that son Michael is an emergency medicine resident at Carolinas Medical Center in Charlotte, while daughter Kelly is a sophomore at the University of Notre Dame. **William O. Richards** of Mobile, Ala., is chair of surgery at the University of South Alabama College of Medicine. Daughter Nicole is a freshman at Emory University.

1980s **1980:** **Phuong D. Trinh** of Rockville, Md., reports that classmate **Craig Dickman** held a local reunion last summer after the untimely death of classmate **Duke Bainum**. Despite the sad reason to gather a good time was had by all. Trinh is looking forward to the 30th reunion in spring. **Emily A. Ulmer** of Davidsonville, Md., opened a private practice



Advice to the Young Physician

Written by Richard Colgan, MD, *Advice to the Young Physician* reveals how to make the transition from technician to healer as taught by some of medicine's greatest teachers. Colgan is an associate professor at the University of Maryland School of Medicine and director of undergraduate education in the department of family and community medicine.

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and is in the process of becoming board certified in geriatric medicine. **1983: Eric W. Scott** and wife Jennifer of Gainesville, Fla., have been married for 27 years. Their oldest daughter is a freshman at Emory University, their second daughter is a high school senior and youngest is in seventh grade. Scott continues in the practice of neurosurgery. **1984: Ellen S. Deutsch** of Media, Pa., is surgical director of the center for simulation, advanced education and innovation at the Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine. **Joseph C. Eshelman Jr.**, of Brecksville, Ohio, is board certified in occupational medicine in addition to pediatrics. **Heidi Gorsuch-Rafferty** and husband Gregg relocated to Penn Laird, Va., where she is a breast surgeon and serves as medical director for hospital breast care. They report that their three children ages 14, 11, and seven are thriving. **David E. Lilienfeld** of Foster City, Calif., reports that son Sam is a freshman at Reed College and daughter Eva is a freshman at Hillsdale

High School. Wife Karen has established a contract medical writing company entitled Write for the Pharm, while Lilienfeld has begun explorations into building a winery. **Dale Meyer** and wife **Joy**, '89, of Voorheesville, N.Y., enjoyed their respective reunions last year and look forward to 2014. **1985: Earlene Jordan** and husband Bill of Bethesda, Md., are well. They have a daughter in her second year at the University of Maryland College Park and a son in his senior year of high school. They look forward to seeing everyone at the 25th reunion in spring. **1986: David W. Oldach** and **Toby A. Ritterhoff** of Chapel Hill, N.C., report that Oldach has acted on a lifelong love of sailing and is now spending time on Lake Jordan with classmate **Barry Saunders**. **Joan Ordman** of Lutherville, Md., married Dr. Grant Cylus. **Lisa A. Scheinin** of Redondo Beach, Calif., found herself running from one plane to the next due to a recent publication. She was invited to speak at a medico-legal conference in Las Vegas on the heels of a personal trip to Peru. **1988:**

Charles Berul of Bethesda, Md., is chief of cardiology for the Children's National Medical Center in Washington, D.C., and professor of pediatrics at George Washington University. **1989: Adam F. Dorin** of San Diego is a partner of Anesthesia Service Medical Group. He is on the board of directors for the San Diego Medical Society, and he is owner and medical director for the Riverview Medical Facility and Spa in San Diego County. **Stephen F. Hatem** of Cleveland celebrates 10-year anniversaries with both wife Amy and working in the Cleveland Clinic. Daughter Sarah is in first grade. Hatem continues enjoying sports and emergency radiology.

1990s: 1992: Geoffrey L. Rosenthal and wife **Carmel Deckelman**, '89, are happy to be back in Maryland and living in Millersville. Rosenthal is directing the children's heart center at Maryland's Hospital for Children, while Deckelman is directing the home front until returning to work in child psychiatry. **1995: Mitesh Kothari** of Hagerstown, Md., reports that children Kendall, age nine, Jack, age seven, and Ryan, age two are doing well, and that **Lisa, Miller**, '96, has joined his practice. Kothari is looking forward to the 15-year reunion in spring. **Vinay Thohan** and wife Jeanne live with their two daughters in Lewisville, N.C. Thohan is director of heart failure/transplantation at Wake Forest University School of Medicine. **1996: Stephanie D. Silverman** and husband Adam have moved to Florence, Mass. Both practice family medicine and are on the faculty at Tufts Medical School precepting students. They proudly announce the birth of Talia Danielle on October 2, 2009. She joins brother Asher, age two. **1997: Ruwanthi Samaranayake Campano** and husband Angelo of Palmdale, Calif., are busy with their respective medical and law practices.

Daniel Farber of Mount Airy, Md., was selected as an American Orthopaedic Foot and Ankle Society traveling fellow last summer and represented Maryland's department of orthopaedics at several foot and ankle centers in Vancouver, Se-

attle, Salt Lake City, and San Francisco.

Martina Afshar Reiss and husband Alex of Tampa recently celebrated the birth of their second son. Reiss practices OB/GYN

Heidi Ginter Shah and husband Nilesh of Shrewsbury, Mass., report the birth of Jordan Parvati, their third daughter, on June 21, 2009. **1998: Herlene Chatha**

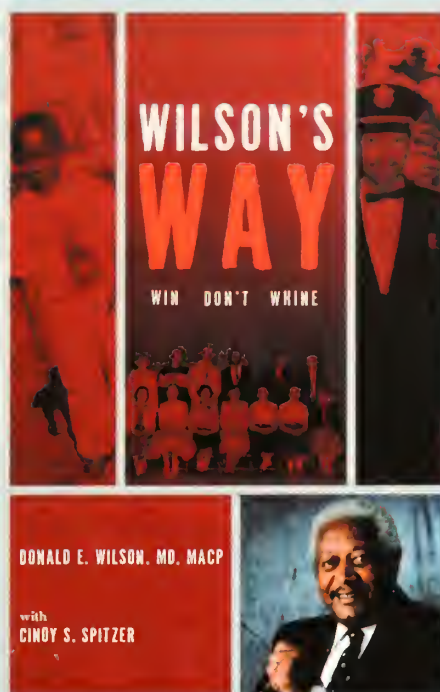
of Kensington, Md., is a pediatric hospitalist at Anne Arundel Medical Center, while husband Kevin C. Reed continues in the ER with MedStar. **1999: Leslie Emmert-**

Buck, MD/PhD, and husband Mike live in Easton, Md., with children Nathan, Emily, and Alicia. Emmert-Buck practices ophthalmology. **James L. Medina** of Lancaster, Pa., is in charge of physician recruiting for Lancaster Emergency Associates. He and wife Stacie report that son Christian is now six years old, while Adrian is four. **Mallory Williams** of Shreveport, La., presented "Strategies in Hemostasis from the Battlefield" at the National Medical Association Annual Scientific Session last summer in Las Vegas.

2000s: **2002: Scott M. Katzen** and wife Jodi of Columbia, Md., announce the birth of twins Dylan and Avery on May 7, 2009. They join three-year-old Andrew. Katzen completes his interventional cardiology fellowship at Maryland in June. **2004: Aditee Ambardekar** has joined the faculty at the University of Pennsylvania School of Medicine. She is in the department of anesthesiology and critical care at the Children's Hospital

of Philadelphia. **Robert G. Davidson** and **Ashley Wermine**, '06 of Baltimore were married on September 19, 2009. The best man was **Brian Edwards**, '04, and bridesmaids included **Jennifer Brown**, '06, **Priti Bijpuria**, '06, and **Kristin Rousillon**, '06. **Benjamin D. Snyder** of Seattle is working as a physiatrist in private practice. His clinical work focuses on spine and sports medicine. He and wife Rachel

have two daughters—Nora and Sonia. **Robin Veidt Manson** and husband Ted of New York City report the birth of Audrey Kay on May 31, 2009. **Willis Wu** and wife **Christine Hayes Wu** of Rocky River, Ohio, announce the birth of daughter Evelyn Caroline on July 10, 2009. **2006: Larry M. Edelman** of Baltimore is an attending for Upper Chesapeake Emergency Physicians in Harford County, following completion of his EM residency. 🏠



Wilson's Way

Donald E. Wilson, M.D., M.A.C.P. served as Maryland's dean from 1991 to 2006. His autobiography is now available for purchase on the MAA website: www.medicalalumni.org (click "Momentos"), or by mailing \$33.99 (includes shipping) to: Medical Alumni Association, 522 W. Lombard Street, Baltimore, MD 21201-1636.

Profits benefit the Wilson Scholarship Fund.

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly Bulletin magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

Paul Schenker, '26
Baltimore
October 26, 2009

At age 106, Dr. Schenker was the medical school's oldest living graduate. Upon graduation, he received a one-year rotating internship followed by two years of surgical residency training at West Baltimore General Hospital. Schenker operated a private surgical practice and was on the staffs at Sinai and Doctors hospitals until retirement from private practice in 1964. In the mid 1930s he also served as coroner for Baltimore City. After retiring, Schenker worked for the Veteran's Administration for nearly 25 years, becoming fully retired in 1989. In 2008, he received a lifetime achievement award from the medical school during its spring commencement exercises. A short time later a scholarship was established at the medical school in his honor. Schenker enjoyed fishing, gardening, card games, and was a ham radio operator. He was preceded in death by wife Marion and is survived by two daughters, four grandchildren, and six great-grandchildren.

Samuel E. Einhorn, '35
Highland Park, N.J.
November 24, 2009

Dr. Einhorn's private practice was interrupted during World War II when he served as a physician in the U.S. Army. He specialized in diabetes and tuberculosis during a career spanning six decades. He retired to Lantana, Fla. In 2002, the Einhorn family established a scholarship in honor of their father, awarded to a first-year medical student who best exemplifies his character through superior academic performance, a determination to succeed, and a commitment to compassionate patient care. He had turned 100 years old last February and is survived by wife Patricia, two sons, one daughter, and four grandchildren.

Irving V. Glick, '40
Great Neck, N.Y.
April 17, 2009

Dr. Glick received orthopaedic residency training at Bellevue Hospital in New York City, and in 1944 served as a major in the U.S. Army Medical Corps assigned as an

orthopaedic surgeon to several military hospitals. He became among the first to use bone grafting in reconstructive surgery, and he remained in the military until the end of World War II. Returning to New York, he established a private practice and served as clinical professor of orthopaedic surgery at the NYU School of Medicine. Glick was tournament physician for the U.S. Open Tennis Championships for more than 25 years and was responsible for establishing its medical department which became the model for tennis tournaments around the world. In 1991, he was named tournament physician emeritus. Glick founded and chaired the US Tennis Association Sports Medicine Advisory Committee in 1980, during which time sports medicine and tennis medicine in particular became a recognized sub-specialty. Glick served as the International Tennis Federation medical representative to the Olympic games in Seoul (1988) and Barcelona (1992). He also served as team physician for the New Jersey Nets and St. John's University basketball teams. Glick was the recipient of numerous awards and became an inductee into the US Tennis Association Eastern Tennis Hall of Fame as well as the St. John's University Hall of Fame. For his contributions to women's tennis, Glick became the inaugural recipient of an annual award given by the Women's Tennis Association that now bears his name. He retired from private practice in 1999 and for a while served as a consulting orthopaedic surgeon at ProHEALTH Care Associates in Lake Success. Glick is survived by wife Tommie, two children, and three grandchildren.

James E. Stoner Jr., '43M
August 20, 2009
Walkersville, Md.

Dr. Stoner trained at Garfield Memorial Hospital in Washington, D.C., and entered the U.S. Army in 1944 during World War II. After two years of military service, he began private practice specializing in general medicine and geriatrics. He was on the staff at Frederick Memorial Hospital and remained in practice until 1994. Stoner was an active member of the Walkersville Fire Department and served on the town council

and Walkersville F&M Bank board. He enjoyed fishing, hunting, golfing, gardening and playing cards, and one of his greatest loves was jazz. Stoner is survived by wife Liza, four daughters, five grandchildren, and two great-grandchildren.

S. Malone Parham, '45
Henderson, N.C.
September 22, 2009

Upon graduation, Dr. Parham served his military duties as a flight surgeon with the 14th Air Force during World War II before returning to Maryland for his training in OB/GYN. He returned to his hometown of Henderson in 1952 where he operated a private OB/GYN practice until retirement in 1986. He was credited with founding and supervising the Vance County Health Department Prenatal and Postpartum Clinics, subsequently known as the County Family Planning Clinic. He enjoyed golf and traveling. Parham was preceded in death by wife Mary Louisa and son S. Malone Jr., and he is survived by three children five grandchildren, and three great-grandchildren.

Charles A. Hefner, '46
Roanoke, Va.
September 21, 2009

Youngstown Hospital in Youngstown, Ohio, was the site of both Dr. Hefner's internship and residency training in internal medicine. From 1947 to 1949, he served as a captain in the U.S. Army Medical Corps in Germany, before relocating to Roanoke where he established a private practice and was a clinical assistant professor at the University of Virginia. He retired in 2002. He enjoyed trips to the beach and holiday gatherings and social events with family and friends. Hefner is survived by wife Donna, one daughter, and one grandson.

Rennert M. Smelser, '48
Lutherville, Md.
September 29, 2009

Dr. Smelser interned at Mercy Medical Center in Baltimore and received surgical training at Union Memorial Hospital. Afterwards he was a fellow and graduate student in surgery at the University of Pennsylvania. He was a member of the house staffs at

in memoriam

both Union Memorial and the University of Pennsylvania, associations which he described as the most rewarding of his career. He retired in 1986. Smelser enjoyed ornithology and herpetology, illustration and fine art training. Smelser is survived by wife Elizabeth.

David Owens, '54
San Diego, Calif.
June 19, 2009

Dr. Owens attended medical school on the GI Bill, having served in the U.S. Army Infantry during World War II from 1943 to 1945. He was recipient of the Silver Star Medal, Combat Infantry Badge, Presidential Unit Citation, European, African, and Middle Eastern service medals and five Bronze Stars. Owens was involved in major battles in Normandy, Northern France, Rhineland, Ardennes, and Central Europe. Upon medical school graduation, he trained at Bon Secours Hospital and for three years operated a general practice in Sparrows Point. He moved to Vacaville, Calif., in 1958 to serve as physician and surgeon at the California Department of Corrections where he was promoted to chief medical officer in 1960. In 1963, Owens began a psychiatric residency at Napa State Hospital in Imola before becoming senior psychiatrist at the California Medical Facility in Vacaville and later at the California Institute for Women in Frontera. He later moved to San Diego for a psychiatric position with the county's mental health services where he established a continuing care program for discharged psychiatric patients. In 1978, he began in private practice but continued holding clinics at various care facilities and hospitals. He was a clinical professor of psychiatry at the University of California, San Diego. In 1998, Owens was named San Diego Clinician of the Year and in 2009 was honored by Sharp Mesa Vista for his years of dedicated service in the treatment of the mentally ill in San Diego. Owens enjoyed traveling to Hawaii and gardening. He is survived by wife Diana.

Norman W. Lavy, '55
Westfield, N.J.
October 7, 2009

Maryland was the site of Dr. Lavy's rotat-

ing internship, followed by one year as an assistant resident in medicine at Emory University Hospital in Atlanta. Lavy then spent two years as a flight surgeon with the U.S. Air Force. He completed training in medicine at Indiana University Medical Center in Indianapolis before serving one-year post-doctoral fellowships in medical genetics and microbiology at Western Reserve University. In 1966, he began as director of professional services for E.R. Squibb & Sons and rose to vice president for drug regulatory affairs, a post he held from 1977 to 1987. Lavy was commissioner for the U.S. Congress Commission on the Federal Drug Approval Process from 1981 to 1982 and held top positions with the Pharmaceutical Manufacturers Association. From 1969 to 1999, he was clinical associate professor of medicine at UMDNJ-Robert Wood Johnson Medical School in New Brunswick. He spent considerable time at his vacation home in Martha's Vineyard and enjoyed sailing. Lavy is survived by wife Marion and brother **Richard, '60**. He was preceded in death by son Roger.

Richard K.B. Ho, '57
Honolulu, Hawaii
May 14, 2009

While in medical school, Dr. Ho was a contestant on the *Big Pay-Off* show and won prizes and travel to Europe. Maryland was the site of his internship, and he relocated to Hawaii for pediatrics residency training at Children's Hospital. From 1960 to 1996, Ho practiced pediatrics and served as an assistant clinical professor at the University of Hawaii. He was also director for Hawaii Poison Control and chief of pediatrics for Hawaii Hospitals. Ho enjoyed golf and served as a regional committee representative for the U.S. Golf Association. He is survived by wife Anita, four children, and five grandchildren.

Marvin N. Goldstein, '64
Rochester, N.Y.
August 16, 2008

Dr. Goldstein was a resident in neurology at the University of Rochester and later served on active duty with the U.S. Navy at the Bethesda Naval Hospital where he

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was assigned to the neurology service. He returned to Rochester where he was in private practice until retirement in 2004. He then worked at a local clinic. Goldstein is survived by wife Athene, one son, one daughter, and four grandchildren.

Kenneth R. Koskinen, '66
Fayetteville, N.C.
September 10, 2009

Dr. Koskinen served in the U.S. Air Force after training in pediatrics at Maryland which included a year as chief resident as well as a one-year fellowship in pediatric psychiatry. His 26-year military career took him to England and Germany and back to Andrews Air Force Base in Washington, D.C., where he last served as a consultant to the surgeon general and chief physician for Andrews Medical Center. Returning to civilian life, Koskinen taught residents at St. Agnes Hospital in Baltimore before becoming the first pediatrician at Upper Chesapeake Medical Center in Harford County. Most recently he served in the emergency department at Cape Fear Valley Medical Center in Fayetteville, N.C., where he was recipient of the Golden Stethoscope Award. In his free time, Koskinen enjoyed tinkering with automobiles. He is survived by wife Deborah and four children including **Sean, '97**.

Davood Badie, MD
Bel Air, Md.
October 15, 2009

Dr. Badie was an instructor in the pediatric clinic at Maryland from 1967 to 1972. He was the son of a farm owner in Mazandaran Province, Iran. Badie earned his medical degree from the University of Tehran in 1955 and moved to England five years later. In 1961, he immigrated to Baltimore and the following year began a rotating internship at Maryland General Hospital, followed by

residency training in pediatrics at Maryland. During residency he traveled to California to work at the City of Hope, treating children with cancer. He established a practice in Bel Air in 1968 and enjoyed privileges at St. Joseph Medical Center, Greater Baltimore Medical Center, and Franklin Square Hospital Center. He retired in 1995. Badie enjoyed walking and travel, and he was an avid Baltimore Orioles and Ravens fan. He is survived by wife E. Jeanne, one son, two daughters, and one granddaughter.

Kurt Glaser, MD
Sykesville, Md.
November 13, 2009

Dr. Glaser was an associate professor of pediatrics and assistant professor of psy-

chiatry at Maryland from 1954 to 1965. He attended medical school at the University of Vienna but left for Switzerland to flee the Nazis in 1938, completing his medical education at the University of Lausanne in 1939. He immigrated to America and in 1941 completed internship training at St. Mary's of Nazareth Hospital in Chicago, followed by residency training at Jewish Hospital and General Hospital, both in Louisville, Ky. He received additional residency training in pediatrics at Children's Hospital in Milwaukee and Children's Memorial Hospital in Chicago. Glaser had teaching stints at both the University of Illinois Chicago College of Medicine and Hadassah University Hospital in Jerusalem before arriving at Maryland in 1954. In

addition to the two faculty appointments at Maryland, Glaser headed the school's mental hygiene clinic for children from 1957 to 1961. Professional appointments included clinical director for the Rosewood Center in Owings Mills, director of adolescent services at Springfield Hospital Center in Sykesville, assistant professor in pediatrics and psychiatry at Johns Hopkins School of Medicine, and staff psychiatrist at Sheppard and Enoch Pratt Hospital. Glaser enjoyed travel, reading, and attending performances at Center Stage. Survivors include four sons, 13 grandchildren, and four great-grandchildren. He was preceded in death by wife Susanne. 🏠





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Schedule*

135th Medical Alumni Association Reunion April 30 & May 1, 2010

Friday, April 30

8:30–10:30 am	Open House, Check-in & Continental Breakfast
9:00–9:45 am	Tour Maryland's Hospital: 25 Years Since Privatization
10:00–11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am–1:15 pm	135th MAA Luncheon & Business Meeting
1:30–3:00 pm	17th Historical Clinicopathological Conference
1:30–3:30 pm	Afternoon Check-in, Davidge Hall
3:30–4:30 pm	School of Medicine Tour
6:30–9:30 pm	The Happening at the Harbor, Baltimore Museum of Industry

Saturday, May 1

8:30 am–1:30 pm	Open House & Check-In
8:30–10:00 am	Continental Breakfast, Davidge Hall
10:00–11:00 am	Campus Walking Tour
11:00–11:45 am	Restoring Davidge Hall: An Update
11:30 am–2:00 pm	Complimentary Picnic, Davidge Hall
1:00–1:45 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:00–2:30 pm	Excursion to Fort McHenry
1:35 pm	Baltimore Orioles Baseball vs. Boston Red Sox
Evening	Class Reunions (years ending in "0" and "5")

University of Maryland

MedicineBulletin

Spring 2010 • Volume 94 • Number 4



Maryland's MASTRI Center: The World of Science *Non-Fiction*



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University of Maryland Medical Alumni Association & School of Medicine



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Maryland's MASTRI Center: The World of Science Non-Fiction 8

Opened in 2006, the Maryland Advanced Simulation Training, Research and Innovation (MASTRI) Center offers simulation to improve skills, not only for surgeons and surgical residents, but for others within a broad range of disciplines in the health care community. It is headed by Adrian Park, MD, professor and chief of general surgery—a world-class surgeon and leading innovator in minimally invasive procedures.

On the Cover: Adrian E. Park, MD, in the MASTRI Center
Photo by Richard Lippenholz

Are These Mummies the Secret Victims of Burke and Hare? 14

When Professor Granville S. Pattison joined Maryland's faculty from Scotland in 1820, he brought with him the world's most extensive anatomical collection—nearly 500 specimens. Two centuries later Ronn Wade, head of Maryland's anatomy board, is trying to determine if some of these donors might have been murdered.

A New Breed of Doctor 21

Maryland's MD/PhD program received a tremendous boost late last year when it was named recipient of a significant grant from the National Institutes of Health. The funding will likely increase the number of applications to a program that has been gaining notoriety and popularity under the direction of Terry Rogers, PhD. As the program has evolved over the years, it has taken on a more translational focus.

Alumna Profile: Francesca I. Okoye, MD/PhD '09 24 Adding Muscle to the MD

She's been described by faculty as one of the brightest and best. So it made sense that, in addition to earning an MD, Francesca I. Okoye, '09, would also join the PhD program at Maryland with focus on the immune system. During her medical education she also began bodybuilding and won several competitions. Now settled into her specialty medical training, Okoye knows the years of preparation will be well worth the wait.

Alumnus Profile: Jorge Velarde, MD/PhD '06 26 Opportunity Revisited

Jorge Velarde, '06, isn't worried about the extended time it is taking him to work through his medical education and training. He remained an extra year at Maryland before receiving his MD/PhD to complete a research collaboration on *E. Coli*. Now, with his pediatric residency behind him, he'll head to Boston for a fellowship in pediatric infectious diseases at Harvard Children's Hospital.



In a recent *Wall Street Journal* Op-Ed column, Darrell G. Kirch, MD, president and CEO of the Association of American Medical Colleges (AAMC), questions whether people newly insured through any overhaul in the health care system will have doctors to care for them.

The AAMC estimates a shortage of 125,000 doctors in the next 15 years. Medical schools currently graduate about 17,000 new physicians each year. The U.S. Department of Health and Human Services says we need a minimum of 16,000 additional primary care physicians right now.

My own experience as chair of the council of deans of the AAMC and dean at Maryland convinces me that these shortages are not predicated on any absence among qualified young men and women aspiring to the medical profession. During the past year, we received more than 4,500 applications for our available 160 placements. Undeniably, the high cost of medical education has become a main reason that some talented medicine-inclined students turn to other careers.

I'm sure we all have treasured memories of our medical school days—the expectations that accompany graduation, the carefully laid plans for residency, fellowships, eventual practice or perhaps research. I look at our young students today, and I can't help wondering how many of their plans are tainted by the anxiety of having incurred an average student loan debt of \$135,000. "Newly-minted" physicians may not choose careers in lower-paying primary care specialties such as general internal medicine, pediatrics and family medicine, even when those are the areas of maximum need, particularly in rural areas.

Here at Maryland we bid for the highest caliber students with outstanding scholastic records and personal qualities intrinsic to exceptional clinicians and researchers. Applicants with clearly directed career goals are drawn to our world-class faculty and the benefits inherent to being taught and mentored by those known for groundbreaking discoveries from transplantation to stem cell research.

I feel strongly that we have a responsibility to help these exceptional future physicians achieve their goals and reach the medical milestones for which they are being trained. I talk to them about their dreams and their expectations, and I wonder sometimes: Is this the one who will replace me, the one who will achieve a goal I missed, the one who will take a direction I didn't take but might have? It is at these times that the sense of responsibility becomes a personal one. I have a feeling it may be the same for many of you as well. That is why I'd like this message to be the beginning of an initiative to help fund student scholarships.

... we never have had enough money "left over" to develop a competitive scholarship program and we need one now more than ever.

Compared to our peer medical schools across the country, Maryland gets much less state support. Frankly, we never have had enough money "left over" to develop a competitive scholarship program, and we need one now more than ever. That's why the case statement for our capital campaign features a strong component for scholarships. We want to raise in excess of \$10 million in new scholarship money in order to more than double our current scholarship endowments of \$8.5 million. Believe me when I tell you that we have many, many students whose careers you would be honored to support. I will be delighted to hear from any of you who want to discuss the nature of your support or other innovative ways of participating. You should also feel free to contact Dennis Narango, associate dean for Development at dnarango@som.umaryland.edu or 410.706.5489.

The challenge is ours. I have every confidence we're up to meeting it head-on.



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs, University of Maryland
John Z. and Akiko K. Bowers Distinguished Professor and Dean,
School of Medicine
Acting President, University of Maryland Baltimore

EVENTS

Relief Work Continuing in Haiti

Since late January infectious disease specialists from The University of Maryland Institute of Human Virology (IHV) and surgical staff from Shock Trauma have been providing care to victims of Haiti's earthquake.

The IHV reported that its offices were still standing and all personnel safe after the January quake and its relentless aftershocks. Haiti is one of the sites where IHV's division of epidemiology and prevention, in conjunction with Catholic Relief Services, is conducting HIV studies and AIDS prevention vaccine trials. Despite the obstacles these efforts are continuing.

St. Francois de Sales Hospital in Port-au-Prince is the site of Maryland's extended medical care. Teams of 20 rotating through every two weeks are treating infections from wounds that didn't heal due to unsanitary conditions, and the surgical cases are focusing on untreated fractures that healed poorly. Efforts are expected to continue for several months.

Courtesy of Catholic Relief Services



Robert R. Redfield, MD, professor of medicine, chief of infectious diseases and associate director of Maryland's Institute of Human Virology, monitors a patient.

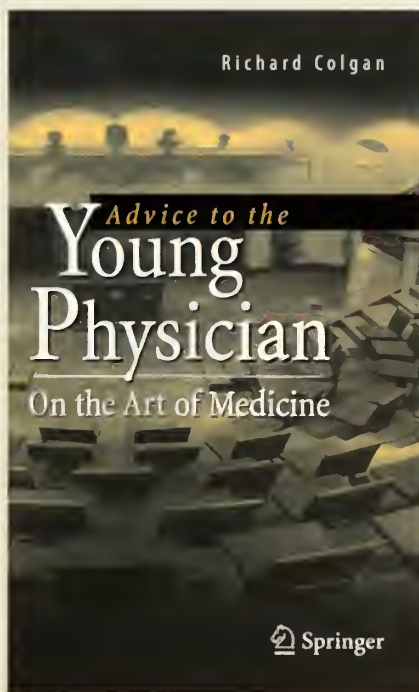
EVENTS

Student Award Honors Mackowiak, '70

Thomas Reznik, a fourth-year student at Maryland, was recently recognized by the local chapter of the American College of Physicians (ACP) with an award named in honor of Philip A. Mackowiak, '70. Inaugurated this year, the Philip A. Mackowiak Award is presented to a medical student from either Maryland or Johns Hopkins who best exemplifies the ideals of the ACP. Reznik organized the ACP mentorship program for Maryland students and served as student representative for the Maryland ACP during legislative day in Washington, DC. A representative of the MAA Student Advisory Committee, Reznik is married and the father of two. Mackowiak, vice chair of the department of medicine, is a former ACP governor.



Thomas Reznik, '10, with daughter and Philip A. Mackowiak, '70



Advice to the Young Physician

Written by Richard Colgan, MD, *Advice to the Young Physician* reveals how to make the transition from technician to healer as taught by some of medicine's greatest teachers. Colgan is an associate professor at the University of Maryland School of Medicine and director of undergraduate education in the department of family and community medicine.

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EVENTS Calling on Annapolis



The Maryland contingent in Annapolis

Loan repayment assistance programs, funding for scholarships, and the problem of physician shortages were among the items of discussion between some 50 students and faculty members and their elected officials in Annapolis on January 21.

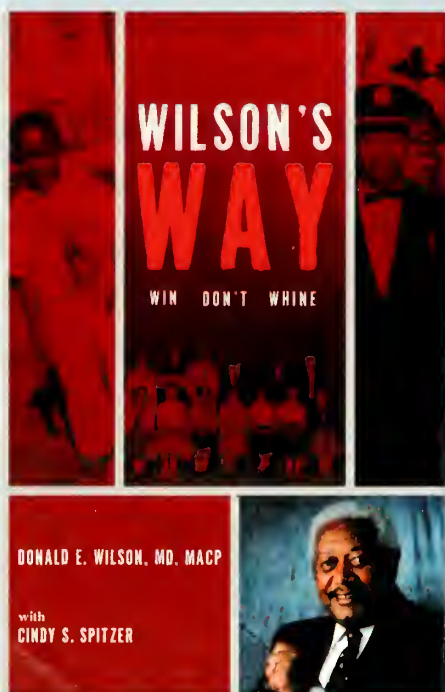
"The medical school is really about its students, and it's important for Maryland lawmakers to see our students," said **Bruce Jarrell, MD**, executive vice dean and professor of surgery. "Then they realize what a wonderful thing their support does, in terms of getting kids from all parts of the state, especially the underserved

rural areas, to become physicians and other healthcare providers. They get to see the results of the hard work the students have done."

"The lawmakers have been great to us," said **Skyler Lentz, '13**. "They seem to be genuinely glad to hear from us and get our opinions." Lentz was part of a group of students from the rural areas of western and southern Maryland and the eastern shore.

Students and faculty were also invited to watch as presiding officers from both the house of delegates and senate presented the school with proclamations recognizing the groundbreaking work of its faculty researchers in mapping the genome of the common cold virus, a step that might one day lead to a cure. Later, they had a brief visit from Mike Miller, senate president, and Michael Busch, house speaker, who both spoke on the status of health care reform.

The pilgrimage to Annapolis has become an annual event in recent years, headed by SOM dean **E. Albert Reece, MD, PhD, MBA**.



Wilson's Way

Donald E. Wilson, M.D., M.A.C.P. served as Maryland's dean from 1991 to 2006. His autobiography is now available for purchase on the MAA website: www.medicalalumni.org (click "Momentos"), or by mailing \$33.99 (includes shipping) to: Medical Alumni Association, 522 W. Lombard Street, Baltimore, MD 21201-1636.

Profits benefit the Wilson Scholarship Fund.

Transitions

Perman Returns to Head University



Courtesy of the University of Kentucky

Jay A. Perman, MD, professor and chairman of the department of pediatrics at Maryland from 1999 to 2004, is returning to campus as president of the University of Maryland Baltimore. Since 2004, he has served as dean and vice president for clinical affairs at the University of Kentucky (UK) College of Medicine. He returns on July 1.

While at UK, Perman was responsible for the recruitment of nearly 200 faculty members, a 40 percent increase in the number of science faculty and a 30 percent increase in clinical department faculty. Total all-source revenues grew by \$150 to \$500 million. Based on the most recent data, the college rose from 35th to 28th among public medical schools in total funding from the National Institutes of Health. He managed the implementation of external

educational partnerships at UK supporting the colleges of dentistry, nursing, pharmacy, public health, and health sciences.

Perman received his MD from Northwestern University in Chicago. Following residency training in pediatrics at Northwestern University Children's Memorial Hospital in 1975, he completed a fellowship in pediatric gastroenterology at Harvard Medical School and at the Children's Hospital Medical Center in Boston in 1977.

From 1996 to 1999, Perman was the Jessie Ball duPont Professor and Chairman in the department of pediatrics at Virginia Commonwealth University Medical College of Virginia in Richmond. He served on the faculty at The Johns Hopkins University School of Medicine for 12 years, and from 1977 to 1984 was an assistant professor and associate professor of pediatrics at the University of California, San Francisco.

Perman succeeds David J. Ramsay, DM, DPhil, the university's president since 1994. Until his arrival, E. Albert Reece, MD, PhD, MBA, dean of the medical school and vice president for medical affairs, will serve as acting president.

EVENTS Chisolm Portrait Added to Collection

Visitors to Davidge Hall can now enjoy viewing another portrait of one of the school's 19th century deans. The image of **Julian J. Chisolm, MD**, Maryland's 16th dean from 1869 to 1874, was put to canvas in 2009 and delivered to campus in late December. Chisolm is regarded as one of the most famous surgeons in the Confederate Army. He was professor of surgery at the Medical College of South Carolina from 1858 to 1868 and treated the first wounded soldiers at Fort Sumter at the beginning of the Civil War. He joined Maryland's faculty in 1868 as professor of operative surgery and clinical professor of diseases of the eye and ear. An internationally renowned ophthalmologist, Chisolm served as president for nearly every national and international organization during his time. He was founder and chief surgeon of the Presbyterian Eye, Ear and Throat Hospital in Baltimore, and he is recognized for performing the first outpatient surgery for cataracts in America.

The artist is Laura Era, owner of the Troika Gallery on Maryland's eastern shore. She is credited with portraying several of Maryland's early deans now on display in Davidge Hall. Funding was provided by the Medical Alumni Association Bowers Collection of Medical Artifacts Endowment Fund. 🏛️

Artist Laura Era with her rendering of Julian J. Chisolm, MD



Stent Keeps Vessels Open for Dialysis

kidney dialysis patients often need repeated procedures—such as balloon angioplasty—to open blood vessels that become blocked or narrowed at the point where dialysis machines connect to the body. Now, a new FDA-approved stent graft can keep these access

points open longer, reducing the number of procedures these patients may need, according to Maryland research published in the February 11, 2010, edition of the *New England Journal of Medicine*.

"This is the first large-scale randomized study to find a therapy to be superior to the gold standard of balloon angioplasty. We found that using this new stent for dialysis patients whose access grafts have become narrowed improves graft function. It also clearly reduces the need for repeated invasive procedures and interruption of dialysis," explains lead author **Ziv Haskal, MD**, chief of vascular and interventional radiology at the medical center. Haskal is also professor of diagnostic radiology & nuclear medicine as well as surgery at the medical school.

The prospective multi-center study took place at 13 sites across the country and enrolled nearly 200 patients. Ninety-seven patients received angioplasty with the new stent inserted in the patient's arm, compared to 93 who received angioplasty alone.

In the study, patients with the stent graft were more than twice as likely to have open vessels compared to the angioplasty only group after six months. The recur-

rence of restenosis was nearly three times lower with the stent group (27.6 percent vs. 77.6 percent). In later follow-up, some patients still had functioning grafts two years after the stent graft was first implanted.

"That can translate into cost savings and improved quality of life for these patients, who already spend about nine to 12 hours a week in dialysis. We can now start considering grafts as something that may last for years instead of months in dialysis patients."

According to the researchers, the cost to treat dialysis access failure amounts to about \$1 billion per year, and the number of patients needing hemodialysis is expected to continue to grow substantially over the next decade.

The self-expanding metal stent graft creates a scaffold to keep the blood vessel open. It is encapsulated by polytetrafluoroethylene, the same material from which most

We found that using this new stent for dialysis patients whose access grafts have become narrowed improves graft function. It also clearly reduces the need for repeated invasive procedures and interruption of dialysis.

dialysis grafts are made. The device allows the physician to mimic the effect of surgery at the scarred area without actually performing surgery.

Dr. Haskal is leading another large study that is currently enrolling patients to assess the benefits of the device over a longer period of time. 🏠



Ziv Haskal, MD

Malaria Vaccine Promotes Immune Response in Children

A new vaccine to prevent the deadly malaria infection has shown promise in protecting the most vulnerable patients—young children—against the disease. An international team of researchers led by the Maryland's center for vaccine development and the Malaria Research and Training Center at the University of Bamako in Mali, West Africa, is doing the groundwork.

There are about 300 million malaria cases worldwide each year, resulting in more than one million deaths, most of them African children according to the World Health Organization. There is no approved vaccine to protect against the condition. The parasite is treatable using medications, though drug resistance is a relatively common problem.

In a study of the vaccine in young children in Mali, researchers found it stimulated strong and long-lasting immune responses. "These findings imply that we may have achieved our goal of using a vaccine to reproduce the natural protective immunity that normally takes years of intense exposure to malaria to develop," says

Christopher V. Plowe, MD, MPH, professor of medicine and chief of the center's malaria section. Plowe, a lead author of the study, published online in the Feb. 4 issue of *PLoS ONE*, the journal of the Public Library of Science. He is an investigator with the Howard Hughes Medical Institute and a Doris Duke Distinguished Clinical Scientist.

In addition to the Howard Hughes Medical Institute's support, the study was sponsored by the U.S. Army and funded by the National Institute of Allergy and Infectious Disease, and the United States Agency for International Development.

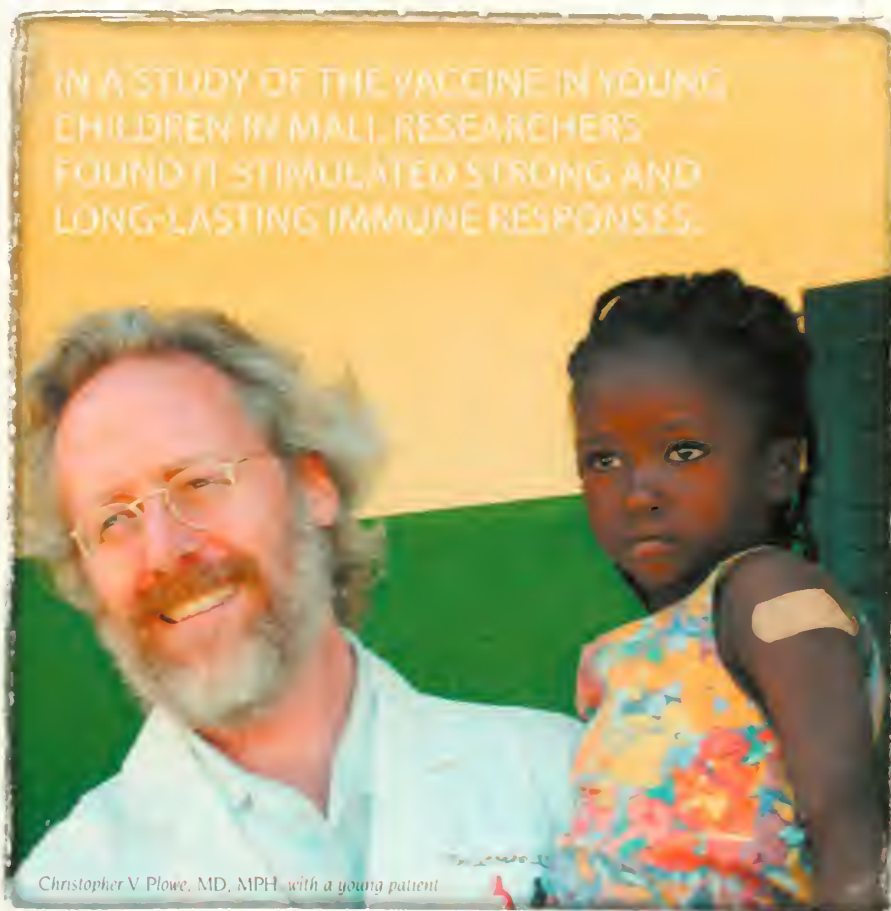
The new vaccine, called FMP2.1/AS02A, was developed as part of a long-standing research collaboration between the Walter Reed Army Institute of Research (WRAIR) and GlaxoSmithKline Biologicals (GSK). The vaccine consists of a form of the AMA-1 protein, invented and manufactured by (WRAIR), and the AS02 Adjuvant System, developed and manufactured by GSK. The adjuvant system is a compound that boosts the immune response to the vaccine. Previ-

ous studies found the vaccine to be safe and to produce strong immune responses in adults.

The vaccine, based on a single strain of the falciparum malaria parasite—the most common and deadliest form found in Africa—targets malaria in the blood stage.

Scientists tested the vaccine in 100 children ages 1–6 at the Bandiagara Malaria Project in rural Mali. The doses proved to be safe and well tolerated, and they showed very strong antibody responses that were sustained for at least a year.

Based on the apparent success in this early trial, the same international team of investigators are now subjecting it to further study in a trial of 400 Malian children. That study also will examine whether the vaccine—though it is based on a single strain of malaria—can protect against the broad array of malaria parasites that exist. The scientists hope the vaccine could be combined with other vaccines to create a multi-component immunization that is highly protective. 📷



By Rita M. Rooney



Adrian E. Park, MD, left, overseeing a simulation in the MASTRI Center.

THE WORLD OF SCIENCE

Maryland's MASTRI Center

Golfers improve their golf swing by mimicking pros, but when it comes to surgical movement, the opportunity for imitation is limited. There isn't much known about such movement, in spite of the fact that it is critical to surgical outcomes, as well as to the design of better instruments. In fact, documenting particulars about surgical movement have long been a pressing need within medical research. Recently, a team from the first surgical ergonomics program in the country created a laboratory to assess and improve movement. The technology places a surgeon before a virtual image on a screen. He or she manipulates instruments in a facsimile of a high-skill video game that emulates a specific surgery, and movement is tracked. It's just one of several inventions that has the promise to transform the future of medical education.

The researchers who created the laboratory are members of the Maryland Advanced Simulation Training, Research and Innovation Center (MASTRI), headed by Adrian E. Park, MD, the Campbell and Jeanette Plugge Professor of Surgery and chief of general surgery. Some of the capabilities at the center hint of science fiction, but they are very real. MASTRI is a high-concept think-and-do tank that is pushing the limits of futuristic technology while pursuing human concerns within medical education and discovery. Members employ simulation to improve skills, not only for surgeons and surgical residents, but for others within a broad range of disciplines in the health care community.

Opened in 2006, MASTRI was the vision of Park, a world-class surgeon and leading innovator in minimally invasive procedures. Having developed a simulation

Photos by Richard Lippenholz

center at the University of Kentucky, he came to Maryland with a dream to create something well beyond simulation.

"There is a concept that, when you've seen one simulation center, you've seen one simulation center," Park says. "The potential is for so much more than a cookie-cutter template. Our focus here is the business of education. Our

MASTRI is a high-concept think-and-do tank that is pushing the limits of futuristic technology while pursuing human concerns within medical education and discovery.

emphasis is research that determines the best methods for skill and cognitive training in a wide variety of medical and health-related disciplines."

There is considerable evidence his vision has been on target from the beginning. Within a few years, the center has become an internationally regarded site, drawing the attention of medical educators throughout the country who come to study its program. It is one of relatively few centers nationally—and the first one on the east coast—to receive a full three-year certification from the American College of Surgeons.

By all accounts, medicine was a latecomer in education by simulation, and arguably with good reason. Pilots and astronauts learn on simulators and later graduate to mastering control panels from the air and outer space. Surgeons, on the other hand, work in the inner space of the human body, and simulators can't replicate that. Or can they?

Gerald R. Moses, PhD, director of the MASTRI Center, explains that in times past, surgeons were taught by a see one, do one, teach one maxim. It worked well, and still does, as surgical mentors pass their expertise and insight to students. That kind of education cannot be replaced. However, the advent of minimally invasive surgery, which has become standard for all abdominal procedures as well as many others, lends itself to simulation because the surgeon works through a video monitor, and his or her hands are separated from the surgical field.

"Today's surgical residents still learn decision making and judgment in the traditional manner, through supervised practice in the operating room," Moses says. "But there is additional available training through simulation of surgical procedures that provides alternatives to practicing on real patients."

Therein lies a key component of simulation: safety. Moses alludes to a familiar question asked of surgeons by

patients who want to know the number of a specific kind of procedure a doctor has performed.

"If the surgeon admits he has only done a few, the patient probably doesn't feel very comfortable," Moses says. "But if the answer is 'a few, but I've performed the operation 250 times in a simulated environment,' the patient's response is likely to be more positive."

He reports that there are certain manual techniques attached to minimally invasive surgery that are mastered with low-fidelity simulators designed to develop fundamental skills. Through realistic instrumentation and mock-up tests, surgeons get the chance to practice until they get it right. In a sense, they have no "first patient." When a young doctor scrubs to go into that initial operating encounter as lead surgeon, he or she enters with the confidence gained from surgical mentors, plus the added experience of having already perfected the procedure through practice.

Although Park concludes it was his specialty of minimally invasive surgery that first directed his interest in simulation, he does not believe it is the main driver today. The broad applications within most specialties are propelling its popularity, he says.

"There is also increasing pressure from policy makers, educators, patients and their representatives that medical trainees don't practice on patients," he says. "So the learning curve, for example in critical care or emergency medicine, makes it important to avoid direct patient contact in the early stages of training. If mistakes are made, it's best they are made in a simulated environment."

The boundaries within MASTRI seem to be about the same as the boundaries that limit imagination. Simulation is by no means a one-size-fits-all science, and that affords considerable opportunity for inventive applications of technology.



Gerald R. Moses, PhD, left, director of the MASTRI Center

Ivan George, director of advanced technologies and special projects, reports, "We have different technology for every class of procedure we undertake. We use laparoscopic simulators, plus those for endoscopy, trauma, childbirth, vascular procedures—and while some of the simulators serve multiple functions, we need individual modules for each one."

He adds the center's full roster of both physical and virtual trainers includes human patient mannequins that breathe, have blood pressure and other vital signs reflected on a screen. A technician behind the screen can change the "patient's" well-being by adjusting vital signs to simulate risk situations. The mannequin's chest will rise and fall



in response to behind-the-screen input, and will respond as a human patient would to trauma, amputation, or even multiple challenges.

"A student might be called on to manage an airway problem or uncontrolled bleeding," he says. "We might be using our baby simulator to test an anesthesiology resident's administration of an anesthetic to an infant—a delicate procedure in which the blood oxygen mixture must be precise."

Research is a cornerstone of MASTRI's initiative that finds cost efficiencies when necessary and solutions where there appear to be none. George says the test of any surgical model the center uses is that it must be translational in its application to the operating room, claiming there are many simulators they won't use because of their unrealistic learning curve. "We want to be absolutely sure that any student who learns on a simulator will not have to re-learn in surgery," he says.

The solution to the problem of finding appropriate technologies often is found in the response from the center's staff who elect to develop their own models. George points out that those involved in this research generally are staff members with relevant experience. His own background includes several years as an operating room manager. He and E. Jacob Seagull, PhD, director of education research, created a model for hernia repair by approximating human tissue with various materials so that the model looks and feels realistic. An added degree of realism is achieved by converting actual patient data into a three-dimensional representation that then can be placed inside the models. The model is unique to Maryland and now is being used nationally in lieu of using animals to demonstrate the procedure. The manufacturer's model sells for \$120,000 and has some physical restraints for teaching. MASTRI developed its technology at a cost of \$300 and has a patent pending for it.

Moses reports this is a typical example of the ingenuity and creativity at MASTRI. "Here we have a model that realistically replicates hernia repair—and it was developed with photography, a little plastic, some glue and considerable imagination," he says. Park reports there are several other simulation models developed by MASTRI staff, some of which also have patents pending.

If some of the work undertaken by the MASTRI team seems futuristic, it should be noted that it is no more so than the environment itself. Every facet of the center has been designed, not only for optimal function and long-term adaptability, but with planning that remedies unanticipated interruptions or necessary changes in a planned schedule. One of a few academic simulation centers with on-site convenience, it found a home when the hospital's surgery suites were being relocated. Park eagerly accepted part of the abandoned space for the center; then used the remaining space to complete four "operating rooms" and two conference areas.

"We started swinging hammers, found some funding for needed renovations, and eventually wound up with a whole wing," Park reports. "It's unique because, instead of knocking down walls, we kept them as they were. Our walls have all the noise, all the pipes and cables that are found in the OR. That makes it realistic in terms of the scenarios that take place in the center."

Surgery education, though it constitutes approximately half of the center's program, is by no means its only activity. Learners include medical students, anesthesiology residents, fellows, nurses, nurse practitioners, paramedics, Air Force military and civilian personnel, and hospital employees from several departments. In all, there are 40 different courses, encompassing 500 sessions and 3,000 course hours for a total 5,000 student encounters annually.

Moses formerly served as a program manager for the U.S. Department of Defense. He says the current needs for medical personnel to be trained in trauma and other procedures have led to their enrollment in MASTRI courses for a variety of disciplines.

"There has been an enormous breakthrough in medical simulation in the last 10 years," he says. "Technology is changing the way medical education is being applied. Even practicing surgeons wanting to refine or expand their skills are looking to simulated techniques."

Strong endorsement from the American College of Surgeons is adding impetus to simulation programs across the country. The group is currently working to establish guidelines for specific elements within a curriculum. Similarly, the American Board of Surgery now dictates that a surgeon cannot sit for board examination until he or she has passed the fundamentals of laparoscopic and endoscopic skills

Surgery education, though it constitutes approximately half of the center's program, is by no means its only activity. Learners include medical students, anesthesiology residents, fellows, nurses, nurse practitioners, paramedics, Air Force military and civilian personnel, and hospital employees.

taught through simulation. As for the relatively young Society for Simulation in Health Care, the organization hosted 350 at its annual meeting six years ago, and 3,000 in 2009.

Probably no ground-breaking advance in medical sci-



Photo by Ethan Hagan

Ivan George, director of advanced technologies and special projects at the center, works at a simulator with chief residents Kristian Ulloa, MD, and Meghan Milburn, MD.

ence has forged ahead without complication, and simulation is no different. Park confirms there is not yet a uniform standard among simulators across the country. He says medicine lags behind colleagues in aeronautics, aerospace and the military who have been using simulation training for years, and understandably have made greater strides in terms of uniformity. Part of the reason medicine has been slower may be that, contrary to other high stakes fields that are willing to adopt innovations they know work, medicine tends to hold back until there is proof. Currently, leaders in the field, including Park, are developing fundamental principles for training. The support evidenced by the American College of Surgeons is making important inroads toward this aim. Park believes that, while there is still need for manufacturers to start talking the same language, medical science has made significant progress.

The achievements recorded by MASTRI in so short a time, as well as by leading simulation programs elsewhere, suggest it is inevitable that the field will earn a growing presence in almost every phase of medical care.

"There is no turning back," Park says. "The train has left the station. Simulation has become necessary to the practice of medicine. However, we cannot afford to ignore the challenges we face. This is an enormously expensive national undertaking. The market is a small one, and the return on investment not a favorable one. We will need an investment from government and all stakeholders including hospitals, medical and surgical oversight bodies, insurance companies and others. The bottom line, however, is that it will be one of the most fruitful and productive areas in terms of patient safety. I can't think of anything more important than that." 🏢

For more information on the MASTRI Center, contact the Department of Surgery at 416-976-7094 or sparks@mail.queensland.edu




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A man with dark hair, wearing a white lab coat over a grey shirt and tie, is holding a mummified human skull. The skull is dark brown and yellowed, with some facial features visible. The man is looking directly at the camera with a serious expression. The lab coat has a name tag that reads "Anatomical Sciences Division" and a circular logo on the left chest that says "UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE" with the year "1861" in the center. The background is a plain, light-colored wall.

In 1829, William Burke and William Hare were put on trial in Scotland, accused of murdering several people and selling their bodies to aid medical science. Burke was eventually hanged after Hare testified against him to save himself. The following article appeared in *The Sun* newspaper in the United Kingdom on February 12, 2010. It explores the possibility that some of their victims were brought to the University of Maryland in 1820 by Professor (and later dean) Granville S. Pattison.

Are These Mummies the



By Siobhan McFadyen

A grisly crime wave struck fear into the heart of the nation almost 200 years ago.

Furious Scots rioted in Glasgow and Edinburgh and burned down a medical school in Aberdeen because of the shocking rise in body-snatching. Serial killers Burke and Hare were convicted of murdering 16 people—and selling their corpses to medics for dissection.

Now a US expert is coming to Scotland to discover the truth about a collection of mummies bought by the University of Maryland around the time the evil duo were carrying out their slaughter. Ronn Wade, director of the uni's anatomical services division, said: "We don't know where the bodies came from exactly—but it was almost certainly done under cloak and dagger."

The mummies have been preserved in arsenic, salt and honey and the unique specimens have been used by thousands of US medical students. Yet Ronn is unsure how exactly the mummies, which once had 500 separate parts, were collected. He has teamed up with Scots historian John McPhail to uncover their history.

Ronn said: "The Scotland of then is very different to what it is today. Body-snatching was a lucrative industry. It wasn't until the capture of Burke and Hare that people realised the true horror of what had been happening and the laws were changed."

In those sinister times, grave-robbing and murdering victims was one way universities could get their hands on bodies for research. Families even staged grave side vigils to prevent corpses from being taken.

Ronn added: "By law only those who had been executed could be legally used but the medical profession needed hundreds of bodies each year and only around 50 people were executed. It therefore gave rise to the crime wave. People who had just lost loved ones would come up with elaborate methods to keep their remains safe. They would personally watch over graves or invest in iron coffins and mortsafes which can still be seen in Greyfriars churchyard."

In 1832, the Anatomy Act gave physicians and surgeons access to corpses that were unclaimed after death. But Ronn reckons his mummies were collected before this act was passed. He claims they were assembled by a 16-year-old prodigy called Allan Burns who was in charge of the dissecting rooms at College Street Medical School in Glasgow.

His older brother John was the first Surgery Professor at the University of Glasgow and was later prosecuted for grave-robbing. Ronn added: "We know when the mummies were created but who they are remains a mystery. Out of all of the remaining mummies there is one that offers a clue because it has a colour tattoo. It's the only identifying mark on any of the specimens

A colored tattoo. The coat of arms of Pope Pius VII?



Secret Victims of Burke and Hare?

I have seen and it depicts the coat of arms of Pope Pius VII. In those days colour tattoos were rare and I've often wondered whether it could have been that of a bishop."

Ronn—who has also studied Egyptian mummies—says his Scottish collection is unique. He added: "The collection was groundbreaking at the time. It was superior to anything that had been available and we still use it today for educational purposes. I'm hoping to come back to Scotland to do some more research to see if I can find out more." 🏠

Mr Wade can be contacted at the anatomy board at 410.706.3313 or rwade@som.umaryland.edu

Appointments to National Organizations



Miriam Blitzer, PhD

Miriam Blitzer, PhD, professor and head of the division of human genetics in the department of pediatrics, was appointed the executive director of the American Board of Medical Genetics (ABMG) in September 2009. In this capacity she will represent the ABMG on the American Board of Medical Specialties, as well as other organizations representing the genetic community. In addition, she will represent the ABMG at appropriate public and governmental venues and work closely with the board of directors to coordinate board activities, provide administrative oversight and manage internal committee activities.

Carol Carraccio, MD, professor, department of pediatrics, is chair-elect of the board of directors of the American Board of Pediatrics for a one-year term beginning January 2010. In 2011, she will serve as actual chair of the board for one year, and in 2012 will serve as immediate past-chair for another year.

Y. Veronica Pei, MD, MPH, Med, assistant professor, department of emergency medicine, has been appointed as the lead ambassador to China for the American College of Emergency Physicians (ACEP). In ACEP's international ambassador program, they provide the organization's leaders with information on issues pertaining to the status of emergency medicine in their assigned countries and serve as official representatives of the college in those countries.



Jean-Pierre Raufman, MD

Jean-Pierre Raufman, MD, the Moses Paulson, MD, and Helen Golden Paulson Professor of Medicine, has been appointed to a two-year term on the gastrointestinal drugs advisory committee of the Food and Drug Administration. The committee reviews and evaluates data concerning the safety and efficacy of marketed and investigational human drug products for use in the treatment of gastrointestinal diseases and makes appropriate recommendations to the commissioner of food and drugs.

Awards & Honors

Maureen Black, PhD, the John A. Scholl, MD & Mary Louise Scholl, MD Professor of Pediatrics, was awarded the annual Logan Wright Research Award from the Society of Pediatric Psychology at the annual meeting of the American Psychological Association in Toronto in August 2009. Recipients of the award are selected in recognition of their excellence in child psychology research.

Mordecai Blaustein, MD, professor, department of physiology received the 2010 distinguished service award from the Biophysical Society for his many years serving as society treasurer. The award was presented at the annual Biophysical Society meeting in February 2010 in San Francisco.

Angela H. Brodie, PhD, department of pharmacology & experimental therapeutics, was one of 50 invited guests of First Lady Michelle Obama to attend a program honoring



Angela Brodie, PhD, left, with Jill Biden, EdD

the millions of women and families affected by breast cancer. The program occurred October 23, 2009, on the grounds of the White House, surrounded by the Jacqueline Kennedy Gardens. The crowd consisted of survivors, lawmakers, physicians, researchers and officials from non-profit organizations, such as the National Breast Cancer Coalition and Susan G. Komen Foundation, who are dedicated to finding a cure for breast cancer. Speeches were given by Mrs. Obama, who focused on improving health care and reforming the US health care system; Jill Biden, EdD, wife of U.S. vice president Joseph Biden; and three women from the general public who shared their personal stories.

Curt Civin, MD, associate dean for research, director, center for stem cell biology & regenerative medicine, and professor, department of pediatrics, was recognized for his revolutionary research discoveries, receiving the Karl Landsteiner Memorial Award, and being chosen to give the Landsteiner Lecture at the American Association of Blood Banks (AABB) Annual Meeting in New Orleans in October 2009. The award and lectureship was established in 1955 to honor Karl Landsteiner, MD, whose Nobel Prize-winning discoveries of the ABO and Rh blood group antigens laid the foundation for modern blood transfusion therapy. AABB's Landsteiner Award recognizes a scientist whose original research resulted in an important contribution to the body of scientific knowledge, and who has an international reputation in blood transfusion medicine or a related field. Civin received the Landsteiner Award for his pioneering research discoveries relating to the cellular and molecular biology of the stem and progenitor cell, including the identification and isolation of the CD34+ blood-forming stem-progenitor cell, which dramatically improved cellular therapies and bone marrow transplantation.



Curt Civin, MD

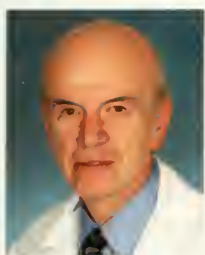
Robert Gallo, MD, professor, department of medicine and director, institute of human virology, received the 2009 Association of American Medical Colleges Award for Distinguished Research in the Biomedical Sciences in November 2009. The award was established in 1947 to recognize outstanding clinical or laboratory research conducted by a medical school faculty member.



Robert Gallo, MD, right, receiving his award from former AAMC chair, Elliot J. Sussman, MD, MBA.

Stephen Jacobs, MD, professor, department of surgery, was awarded the 2009 Gold Cane Award by The American Urological Association (AUA). The award is presented annually to a senior urologist who has made outstanding contributions to the profession and to the AUA. Jacobs was cited for innovation and leadership in the field of laparoscopic donor nephrectomy and in resident education.

Virginia Keane, MD, associate professor, department of pediatrics, was awarded the pediatrician of the year award by the American Academy of Pediatrics (AAP) at its annual awards dinner in September 2009. This award is given to a pediatrician who is also a fellow of the AAP and whose career has exemplified the ideals of pediatrics in service, advocacy and contribution to organized pediatrics.



Allan Krumholz, MD

Allan Krumholz, MD, professor, department of neurology, received the 11th Annual J. Kiffin Penry Award for Excellence in Epilepsy Care. The American Epilepsy Society (AES) developed this award as a tribute to J. Kiffin Penry, MD, and his many contributions to the treatment and study of epilepsy. Krumholz received

the award at the 2009 AES annual meeting in Boston in December 2009. He was chosen in recognition of his genuine concern for patients as well as his devotion to the care of people afflicted with epilepsy—characteristics reflective of Penry's own philosophy.

Event, Lectures & Workshops

Laure Aurelian, PhD, professor, department of pharmacology & experimental therapeutics, was invited by the Chinese Academy of Medical Sciences to be a distinguished guest lecturer. She presented six lectures on "Advances in Gene Therapy" at Peking Union Medical College and Cancer Institute in Beijing and the 3rd Military Medical School in Shanghai over the course of three weeks in October 2009.

Maureen Black, PhD, the John A. Scholl, MD & Mary Louise Scholl, MD Professor of



Maureen Black, PhD

Pediatrics, chaired a session on nutrition and cognition and was invited to give two talks at the International Congress of Nutrition in Bangkok, Thailand, in October 2009. She presented "Nutrition

and Cognition in Children: Possible Mechanisms of Action, Impact on Public Health: Will Insights Lead to More Children Reaching Their Developmental Potential?" and "Development of Responsive Feeding Indicators for Young Children." Black was also one of only 12 conference delegates invited to have lunch with Princess Maha Chakri Sirindhorn of the royal family of Thailand.

Steven Czinn, MD, professor and chair, department of pediatrics, was invited to present "Vaccine Development to Prevent or Eradicate *H. pylori* Infection: An Update" at the 15th International Workshop on Campylobacter, Helicobacter and Related Organisms, held in Niigata, Japan, in September 2009.

Howard Dubowitz, MD, professor, department of pediatrics, was an invited lecturer at the plenary sessions of the South American Conference on Child Maltreatment in Bogota, Columbia, in September 2009. His presentation was "Child Neglect: A Child's Perspective, a Public Health Approach to Preventing Child Maltreatment."



Howard Dubowitz, MD



Leonid Medved, PhD

Leonid Medved, PhD, professor, department of biochemistry & molecular biology and center for vascular and inflammatory diseases, was an invited speaker at the 34th Congress of the Federations of European Biological

Societies in Prague, Czech Republic, in July 2009. He presented "Physiologically Active Nanofibrin" and co-chaired a symposium entitled "Nanosensors and Nanomachines."

Andrei Medvedev, PhD, assistant professor, department of microbiology & immunology, presented "Endotoxin Tolerance Reprograms TLR4 Signaling Pathways and Increases Expression of Negative Regulators of TLR Signaling" at the 2009 Frontiers in Immunology Research International Conference in Kona, Hawaii.

Christopher Plowe, MD, MPH, professor, department of medicine, chaired the

session "Controversies: Malaria Eradication: Elimination" at the 5th Multilateral Laboratory on Malaria Pan African Conference in Nairobi, Kenya in November 2009. Plowe also presented a talk at the conference entitled "Defining the Knowledge Gaps: Tools" in association with the Malaria Eradication Research Agenda project, funded by the Bill and Melinda Gates Foundation.

Teodor Postolache, MD, associate professor, department of psychiatry, gave a presentation on "Suicide Attempts in Patients with Recurrent Mood Disorders" at the biannual World Congress on Suicide Prevention in Montevideo, Uruguay, in November 2009.



Teodor Postolache, MD

Samba Sow, MD, adjunct professor, department of medicine and center for vaccine development (Mali), hosted and served as course director for the Second International Course on Training Techniques at the Hotel Salam in Mali in October 2009. The course brought together 16 participants from France, Lebanon, the Netherlands, Madagascar and Mali and focused on improving the quality of immunization activities. The five-day course supported the expanded program on immunization of the various countries concerned and was organized in collaboration with the World Health Organization, Merck Foundation, and Maryland's center for vaccine development.



Scott Thompson, PhD

Scott Thompson, PhD, professor, and **Tom Blanpied, PhD**, assistant professor, both from the department of physiology, co-organized a workshop, entitled "The Change We Need: New Frontiers in Live-Cell Imaging"

at the annual meeting of the Society for Neuroscience in Chicago in October 2009. The workshop examined advanced microscopy approaches that push the limits of what is currently possible in imaging of living cells and tissues, demonstrating techniques that have only recently become available to neuroscientists or that will only become available in the coming years.

Books/Textbook Publications

Amy Fulton, PhD, professor, department of pathology and program in oncology, was a guest editor of the book *Chemokine Receptors in Cancer*, published by Humana Press, 2009.

Grants & Contracts

Maureen Black, PhD, the John A. Scholl, MD & Mary Louise Scholl, MD Professor of Pediatrics, was awarded a \$2,000,375 grant from the National Institute of Child Health and Human Development for "Toddler Feeding Styles." The grant covers the period September 30, 2009 to August 31, 2011.



Manhattan Charurat, PhD, MHS

Manhattan Charurat, PhD, MHS, assistant professor, department of medicine and institute of human virology, received a four-year \$2,858,656 grant from the National Institute of Allergy and Infectious Diseases for his work entitled "Acute HIV Infection and Pregnancy." The goal of this research

is to investigate the impact of HIV acquisition during pregnancy on mother-to-child transmission of HIV in Nigeria.

Kevin Cullen, MD, professor, department of medicine, and director, University of Maryland Marlene and Stewart Greenebaum Cancer Center, received two administrative supplements to the Cancer Center Support Grant (P30). The first grant was for \$1.5 million to hire a new physician-scientist for the period of August 1, 2009, to July 31, 2010, and the second is a two-year \$150,000 supplement for pilot and grant programs to support developing shared services.

Reha Erzurumlu, PhD, professor, department of



Reha Erzurumlu, PhD

anatomy & neurobiology, received a five-year \$1,640,625 R01 competing renewal grant from the National Institute of Neurological Disorders and Stroke for "Cellular Mechanisms Underlying Pattern Formation." Additionally, he received a \$62,415 equipment supplement award from the National Institute of Neurological Disorders and Stroke for his R01 grant entitled "Somatosensory Cortical Development and Plasticity."

Gary Fiskum, MD, professor and vice-chair for research, department of anesthesiology and center for Shock Trauma and Anesthesiology Research (STAR), has been awarded a three-year



Gary Fiskum, MD

\$1,015,952 grant from the Department of Defense/Geneva Foundation for the project "Inhalation of Oxygen and Hyperventilation Early After Injury May Be Deleterious to Casualties with Closed-head Traumatic Brain Injury."

W. Florian Fricke, PhD, research associate, department of microbiology & immunology and institute for genome sciences, together with **Samuel Angiuoli**, bioinformatics software manager, institute for genome sciences, received a two-year \$1,364,611 grant from the National Human Genome Research Institute for the project entitled "Virtual Machines and Cloud Computing for Automated and Portable Sequence Analysis." A co-investigator on the grant is **Owen White, PhD**, professor, department of epidemiology. This funding was issued under the National Institutes of Health notice FRA-OD-09-004, as part of the Recovery Act Limited Competition for NIH Grants: Research and Research Infrastructure "Grand Opportunities" (RC2).



W. Florian Fricke, PhD

Ronald Gartenhaus, MD, associate professor, departments of medicine and microbiology & immunology and program in oncology, received a five-year \$1,781,250 R01 grant from the National Institute on Alcohol Abuse and Alcoholism for his work entitled "Alcohol Consumption and Risk of NHL: Role of mTOR Dysfunction."

Alfredo Garzino-Demo, PhD, assistant professor, department of microbiology & immunology and institute of human virology, received a five-year \$1,687,500 grant from the National Institute of Neurological Disorders and Stroke for his work entitled "A Novel Anti-HIV Activity of CCR6 via APOBEC3G: Relevance to CNS Infection." The goal of this research is to investigate the mechanism of inhibition of HIV by a cellular receptor called CCR6. These studies are highly relevant to prevention and treatment of HIV infection, because they will contribute knowledge that can be used to develop novel anti-HIV drugs that will target CCR6.



Alfredo Garzino-Demo, PhD

Stephen Liggett, MD, professor, departments of medicine and physiology, and associate dean for interdisciplinary research, received a five-year \$2.3 million grant from the National Heart, Lung and Blood Institute for his work on the molecular basis of rhinovirus-induced smooth muscle relaxation-contraction alterations. The title of his grant is "Lung HRV: G-Protein Coupled Signaling Interactions in Asthma."

Dave Pauza, PhD, professor, department of medicine and institute of human virology, received a four-year \$1,238,776 grant from the National Cancer Institute for his work entitled "Mechanisms for Depleting Tumor Immunity in AIDS." The goal of this research is to investigate intracellular signaling pathways that control cell functions, to uncover defects associated with HIV infection. Knowledge of these defects and potentially understanding the viral proteins responsible for these defects, is proximal to designing new therapy approaches to recover gd T cells in persons with HIV disease.



Dave Pauza, PhD

Christopher Plowe, MD, MPH, professor, department of medicine and chief of the Malaria section, center for vaccine development, was awarded a three-year \$1.5 million



Christopher Plowe, MD, MPH

contract (and a two-year option of \$1 million) from the USAID Regional Development Mission/Asia to support molecular surveillance of drug-resistant malaria in the Greater Mekong Subregion—Cambodia, China, Laos, Thailand, and Vietnam. This award is a collaboration with Mahidol University Faculty of Tropical Medicine in Bangkok, Thailand, and Global Scientific Solutions for Health in Baltimore.



Pablo Rabinowicz, PhD

Pablo Rabinowicz, PhD, assistant professor, department of biochemistry & molecular biology and institute for genome sciences, was part of a multi-institutional team that sequenced the cassava genome. He will now be part of an international consortium that has received a \$1.3 million grant from the

Bill & Melinda Gates Foundation for research to improve cassava genome assembly and accelerate marker-assisted breeding of cassava, a woody shrub that is cultivated in tropical and sub-tropical regions for its edible root, a rich source of carbohydrates.



Jacques Ravel, PhD

Jacques Ravel, PhD, associate professor, department of microbiology & immunology and institute for genome sciences, is co-principal investigator with **Patrik Bavoil, PhD**, professor and chair, department of microbial pathogenesis at Maryland's school of dentistry, on a \$12.2 million, five-year grant from

the National Institute of Allergy and Infectious Diseases to perform comparative molecular and genomic analyses of *Chlamydia* reproductive tract infection. Other campus contributors include **Garry Myers, PhD**, assistant professor, department of microbiology & immunology and institute for genome sciences; **Owen White, PhD**, professor, department of epidemiology & preventive medicine and director of bioinformatics, institute for genome sciences; and **Ligia Peralta, MD**, associate professor, department of pediatrics.

Robert Redfield, MD, professor, department of medicine and associate director, institute of human virology, received a five-year \$8,050,000 President's Emergency Plan for AIDS Relief (PEPFAR) grant through the Centers for Disease Control (CDC) National Center for HIV, STD and TB Prevention. The

grant, entitled "Partnership for Advanced Clinical Education (PACE) Strengthening Pre-Service and In-Service HIV Training in the Republic of Kenya," will enable Maryland to work with the Government of Kenya to assess and strengthen HIV training for key medical personnel. This unique grant, the first of its kind to be funded through PEPFAR, will integrate pre-service HIV education and in-service HIV training to ensure that the country of Kenya has a sustainable system for educating and continuously developing healthcare providers through the entire continuum of care delivery. The grant is expected to expand within Kenya during the funding time period, and will act as a model for other HIV-affected countries seeking to streamline HIV education by linking education and service delivery.

Mary Rogers, PT, PhD, professor and acting chair, department of physical therapy & rehabilitation science, has been awarded a two-year \$1,156,662 National Institute on Aging R01 grant to study "Lateral Stability and Falls in Aging." This is the first R01 grant ever awarded to the department.

William Stanley, PhD, professor, department of medicine, received renewal funding totaling \$11.2 million for a five-year NIH Program Project Grant entitled "Cardiac Energy Metabolism



William Stanley, PhD

in Heart Failure" (August 2009-July 2014). The project studies defects in energy metabolism in cardiac muscle in the chronically failing heart, with emphasis on the development of novel nutritional and pharmacological therapies. It is headed by Stanley and is a collaborative effort with Case Western Reserve University, New York Medical College, and Henry Ford Health Services.



Robert Redfield, MD

Michael Terrin, MD, CM, MPH, professor, department of epidemiology & preventive medicine, received a seven-year \$30,729,138 grant from the National Heart, Lung, and Blood Institute for the establishment of a Progenitor Cell Biology Consortium Administrative Coordinating Center. The goal of this initiative is to develop a highly interactive and synergistic consortium of investigators who will share ideas, data and resources to move the field of progenitor cell biology forward.

Hervé Tettelin, PhD, associate professor, department of microbiology & immunology and institute for genome sciences, is a co-investigator on a five-year \$10,189,193 grant from the National Institute for Allergy and Infectious Diseases entitled "Mucosal immunity, vaccines and microbiota interplay in humans and animal models." Tettelin's focus will be on "A Novel ORFeome Approach to Identify CD8+ T Cell Responses to Salmonella Typhi Proteins in Humans." **Marcelo Szezin, MD**, professor, departments of pediatrics and microbiology & immunology, is the primary investigator on this grant.



Hervé Tettelin, PhD

Ron Zielke, PhD, professor, department of pediatrics, with strong support from his staff, received a five-year \$7,150,000 contract for the continued operation of the National Institute of



Ron Zielke, PhD

Child Health and Human Development (NICHD) Brain and Tissue Bank for Developmental Disorders. **Kathleen Currey, MD**, clinical assistant professor, and **Ling Li, BM**, assistant professor, both of the department of pediatrics, contributed greatly to this successful competitive renewal. The NICHD Brain and Tissue Bank serves as a human tissue repository for research to benefit individuals with hundreds of different developmental disorders. The bank has collected brain and systemic tissue from over 3,000 donors throughout the US and Canada; over 710 researchers in 20 countries have received tissue from the Bank, resulting in more than 800 publications.

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Non sine hoc ita moverunt, non domini nostri sed duces erant. Patet omnibus veritas, non domini
est occupant, multum ex illo clausa futura relictum est.—Seneca, *Epist.* 55.

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120 Years Ago

In 1890, William T. Councilman, class of 1878, made his initial report on the hepatic manifestations in patients with yellow fever and his description of an acidophilic body later known as Councilman Body. He became Dr. William Welch's first resident at City Hospital and a faculty member in physiology, anatomy and pathology at Johns Hopkins. In 1892, he became the Shattuck Professor of Anatomy at the Harvard Medical School.



50 Years Ago

In 1960, Margaret L. Sherrard, class of 1949, became the first female president of the Baltimore County Medical Society.



170 Years Ago

In 1840, the *Maryland Medical and Surgical Journal*, edited by Maryland's faculty, became the first official publication to be adopted by the medical departments of the U.S. Army and Navy.

A look back at America's fifth oldest medical school and its illustrious alumni

By Rita M. Rooney

A New Breed of Doctor



Although the trend toward physicians with dual professional degrees developed almost 60 years ago, the term physician-scientist remains a vague one among many. Who are these doctors and what is the impetus that drives them toward a career demanding approximately eight years of education beyond their undergraduate studies, plus residencies for most, and additional fellowships for many?

Understandably, the emergence of molecular biology and DNA discoveries opened new opportunities to look at the human genome, thereby attracting those with inclinations toward research as well as clinical care. The entire shift toward personalized medicine



Terry B. Rogers, PhD

where treatments are based on a patient's individual DNA is solid cause for the merger between medicine and science.

However, Terry B. Rogers, PhD, professor of biochemistry and molecular biology, and director of Maryland's MD/PhD program, reports there has been an evolution in the mission of modern physician-scientist training programs in the past 20 years—and the key word is “integration.”

“In the beginning, medical school students who recognized that they wanted more focus on science, would add a PhD degree at some point after becoming an MD,” says the cardiac cell biologist currently studying potential stem cell therapies for heart failure.

“Today, as the result of a national effort to integrate the components within each degree, there is a much more translational focus to the training designation of MD/PhDs.”

The Maryland program begins with two years of medical school, followed by three or four years PhD training, and a final two years of clinical training in medical school. A critical emphasis is that, during the first two years of clinical course work, there are basic science courses plus seminars and laboratory

The aim is to provide a greater disease-oriented approach to laboratory research, while motivating new ideas that stem from the interactions between the clinic and laboratory.

rotations. The PhD phase includes active physician-scientist training in clinical centers related to

a student's scientific interest. The aim is to provide a greater disease-oriented approach to laboratory research, while motivating new ideas that stem from the interactions between the clinic and laboratory.

Rogers reports the National Institutes of Health (NIH) is investing significant funding in physician-scientist training programs. Of 120 medical schools nationally, approximately 40 are funded by the NIH. A recent grant application from Maryland's program has received an exceptionally high score, with funding anticipated by July 2010. Rogers says a favorable NIH review is contingent in part on support from eminent physician-scientists on faculty who can contribute to the training of those in the program.

"It is no accident that a school such as ours, with the talents of Jim Nataro, Steve Liggett, Bob Gallo, Curt Civin and others, has received a top score," Rogers says. "Our students see medicine and research as a continuum, and they are supported by a top level faculty. In addition, we bring in physician-scientists from the NIH and elsewhere, not only as speakers but as mentors."

The American Association of Medical Colleges (AAMC) has launched an analysis of programs in 22 prestigious medical schools including the one at Maryland. Rogers, who serves on the executive committee of the AAMC's MD/PhD section, reports the study shows close to 80 percent of graduates within these programs work in academic medical centers, institutions such as the NIH, or biotech companies. An impressive 99 percent pursue a residency after graduation, typically followed by a fellowship. Fewer than 10 percent drop one phase of training to become either physician or scientist, but not both. Rogers attributes the continued activity in both medicine and science to flexibility within training programs that balance and integrate medicine with research.

Shayna Rich, one of 32 students currently enrolled in the Maryland program, is a graduate of Dartmouth, with degrees in physics and math. Rich began rethinking her choice of career path shortly after graduation. With what she calls a fair amount of "intellectual soul-searching," she considered medical school. She started working in a hospice environment and soon was drawn to pal-


liative care and end of life issues. Her application to Maryland was based on

her instinct that the program would offer a pragmatic way of balancing her interests in research and clinical care. Rich completed a PhD in epidemiology in three years, a considerable achievement. As she works toward her MD, she has already published numerous papers, has received an NIH grant, and in 2008 was named the most outstanding graduate student at the medical school. In addition, she is a recipient of the Nataro Family Scholarship, an award to the program from three generations of SOM alumni whose most recent alum is the program's first graduate, world-class infectious disease specialist, James P. Nataro, MD/PhD '87.

"For me, the program is a marriage of translational research with the area of medicine I've chosen," Rich says. "Even today, when I talk to MDs, they tell me many journal papers are not helpful. There is only limited benefit in a study on the efficacy of a drug if it is written from an ivory tower perspective, without hard facts that help physicians know what is best for an individual patient. I believe this kind of inequity can be addressed by the MD/PhD graduate."

Maryland's program is a highly competitive one. While applications are likely to increase following receipt of the NIH grant, applications currently number approximately 120 a year. Of those, 30 applicants will be interviewed and 11 accepted. Ultimately, five will matriculate. Acceptance of each student represents a substantial expense to the SOM which provides full support, including tuition, health insurance and an annual \$25,000 stipend for each student.

"Full student support is necessary if we are to get the kind of results we need," Rogers claims. "However, there is a return on that investment. Many of our students are so talented that they receive their own grants. This results in resources for their mentors, and places an outstanding student in a laboratory in which he or she may make an important discovery—one which the principal investigator can spin into a new grant."

Faculty members involved in the MD/PhD program contend such returns don't begin to include all the benefits gained by training those who in the near future will be part of the decisive bonding taking place between science and medicine. 

Adding Muscle to the MD

ALUMNA

PROFILE:

Francesca I. Okoye, MD/PhD '09



At a bodybuilding competition

At 5 feet 11 inches, Francesca I. Okoye, MD/PhD '09 cuts a striking figure. She is athletic, energetic, and intelligent. But what really sets her apart in the world of medicine is what she is working hard to become: a new breed of physician, accomplished not only in medicine, but science as well.

Over a seven-year stretch, Okoye, age 33, has not only received a doctorate in microbiology and immunology, but graduated from the school of medicine. It is a pursuit that requires intelligence, dedication, stamina and a desire to spend more than a decade studying and learning in hospitals, clinics and labs. Her goal is a simple one—to make a difference. And the best way she knows how is by fusing the scientist with the physician.

“I fell in love with the fact that I could try something in the lab and take it back to the patient,” says Okoye, who received her doctorate in 2007 and graduated from the medical school last spring. “That is the whole goal of being in medicine: to make a difference.”

Years ago, the scientist and physician would have rarely crossed paths. But Okoye and a growing number like her are bringing the two worlds together.

Okoye is currently a first-year resident in internal medicine at Stanford Hospital & Clinics in Palo Alto, Calif. She pulls 30-hour shifts in the cardiac care unit, counseling patients on taking medications, or discussing the benefits of a low-salt diet. “For me it is one patient at a time,” says Okoye. “Before conversing with each patient I remind myself to address every aspect as to why they are here; so they don’t have to return for the same problem.”

While she shows compassion at the bedside, Okoye is as serious in the lab. She has studied CD4 T cells, which help activate other cells in the immune system. She has contributed to breast cancer vaccine research, and has studied proteins and antigens in cells by staining them with immunofluo-

I fell in love with the fact that I could try something in the lab and take it back to the patient.

rescent dye. "For me research is great if I can apply it to humans," she says. "At the end of the day I want to know how my work in the lab applies to patients."

If anyone has the potential to make a difference in medicine it is Okoye, according to Frank M. Calia, MD, MACP, vice dean for clinical affairs and former chairman of medicine. "She is a superstar," he says. "Her rise is already meteoric."

Since she was a youngster, Okoye knew she wanted to be in medicine. She was born in Nigeria, one of six children, and her parents moved to Baltimore in 1986. Her father, a scientist at Johns Hopkins School of Public Health, researched malaria until he retired, and her mother is currently working as an aide at a nursing home.

"We all played sports," she says of her three brothers and two sisters. "But the girls were more bookish than the boys." Okoye's younger sister, Mercy, is a third-year resident at Maryland.

After graduating from college, Okoye became a research assistant and then a senior laboratory technician in the oncology department at Johns Hopkins University School of Medicine. She wanted to become

about her because everybody raved about her. There was a buzz," he says. "She excelled in the basic sciences; she has excellent clinical skills; she is very creative; she has great people skills; and she has leadership coming out of her ears."

Okoye has sacrificed plenty by packing so much into her life in such a short time. About seven years ago she began bodybuilding to keep in shape and showed promise, taking first place in several competitions, including the DC Capitol City Musclemania Tall Division in 2004. She still manages to squeeze in time for a workout, but on her one day off a week she is usually scrambling to meet life's basic needs. "I tend to run errands that I should have run all week—I clean my apartment and buy groceries," she says.

More training lies ahead. After residency Okoye plans to begin a fellowship, as she contemplates rheumatoid arthritis as her specialty. She aims to "find better treatment options or perhaps even discover the exact mechanism involved in the development and progression of the disease," she says. "It is a long road," Okoye admits. "But at the end of the day well worth the effort. I like helping people." 🏠

She excelled in the basic sciences; she has excellent clinical skills; she is very creative; she has great people skills; and she has leadership coming out of her ears.

a doctor but needed to improve her MCAT scores. Working in the lab helped her pay for her courses and prepare for the test. She was accepted at Maryland in 2000, and two years later she decided to apply to the MD/PhD program.

"The MD/PhD application process was intense: more forms, more essays and, yes, panel interviews," Okoye recalls. "The interview was the most nerve racking with several faculty members grilling me on why I wanted two degrees, where I saw myself in 10 years, and what area of research and medicine I hoped to pursue."

Only a handful of students were accepted.

Calia, who was chairman of the department of medicine at the time, met with Okoye and the other senior medical students once a week. He says she was one of the best ever. "And I have been doing this for 40 years," he says. "I knew



Right: With mother Veronica at graduation last spring

Opportunity Revisited

ALUMNUS

PROFILE:

Jorge Velarde, MD/PhD '06

The first student in Maryland's MD/PhD program to receive a full scholarship with a stipend could have obtained his PhD a

year earlier than he did. Jorge Velarde MD/PhD '06, stayed to take full advantage of an offer he couldn't refuse.

"I had the chance to complete a collaboration in Dr. David Weber's laboratory and the NMR facility," the *cum laude* alumnus reports. "I was working on the solution structure of a secreted *E. Coli* protein, and I didn't want to pass up that opportunity."

From all indications, Velarde, a pediatrician and biochemist, was much less concerned about the time his training took than in the opportunities it afforded him. In fact, the word "opportunity" is one this young physician-researcher uses often. It explains his reason for undertaking dual degrees. An interest in science as a youngster propelled him on an early path toward medicine, and a renewed curiosity about research while a University of Maryland, College Park (UMCP) undergraduate paired the two disciplines.

"I had a chance to do some research in college that led to an undergraduate honors thesis," he says. "I began to realize a PhD degree would be an opportunity to add an important dimension to my career as a physician. Once I started looking into the possibilities within MD/PhD programs, and the advantages for a medical doctor to better understand the science that drives treatment and cure, I knew this was what I wanted."

Like a growing number of both medical students and PhD candidates, Velarde wasn't willing to draw a line between the two. He wanted to become a pediatrician and was drawn to infectious diseases because he saw it as an evolving field, one in which an expanding list of infections guaranteed limitless "opportunity" for a physician eager to tackle the tough hurdles in research. The word that had become integral to his vocabulary took on new meaning with his studies at the center for vaccine development under the direction of James Nataro, MD/PhD '87.

Commenting on a number of mentors he found at Maryland, Velarde says Nataro was his advisor and a "fantastic role model." He refers to others, such as Weber, whom he



cites as a wonderful and supportive scientist who opened research possibilities he wouldn't otherwise have had.

"I can't overemphasize how fortunate I have been in working with people who not only are extraordinary researchers, but who give so much in mentoring students," he says. "Jim Nataro became the strongest influence I could hope for in showing me just what I might be able to achieve in pediatrics."

Nataro is equally appreciative of his former student's abilities. "Jorge was one of the best students I have ever worked with in any capacity," he says. "He was a superb student: hard-working, creative, and independent. He showed exceptional promise as an independent investigator."

Velarde, whose father is an alumnus of UMCP, was recruited to the same campus through the prestigious Banneker-Key scholarship. After graduating with a GPA of 4.0 and numerous honors, he selected Maryland's MD/PhD program over several others based on the prestige of the center for vaccine development. He authored two papers prior to getting his PhD, and then went on to complete a residency in pediatrics at the Cincinnati Children's Hospital Medical Center, his first choice because of its strong clinical training programs. For the past year, he has served as a staff physician in the emergency department of that medical center. His wife, Aynslee Wells Velarde, '07, will complete her pediatric residency there this spring. In July 2010 the couple will move to Boston where Velarde will begin a fellowship in pediatric infectious diseases at Harvard's Children's Hospital.

While his research has necessarily taken a back seat during the past year, he is eager to begin studies on the pathogenesis of group A *Streptococcus*, which is known to cause a number of infections. He had started to put together the kind of data that was leading him closer to discovery. On another front, he calls his year treating children in a busy emergency department a challenging experience that gave him a chance to treat some seriously ill youngsters. Those interactions with children and parents have been invaluable as well.

"Every experience throughout my medical and graduate education, as well as my clinical work as a staff physician, have been exciting because they pointed me in the direction of my ultimate career path," Velarde says. "People sometimes ask if I see myself more as an MD or PhD. To be honest, it's neither—not yet. I see myself as Jorge. I'm pretty low key on that. Right now, I'm thinking about the opportunities I have had, looking forward to those ahead, and focusing on how they will shape my future."


In recounting some of those past, he includes the summer between college graduation and medical school. He was fortunate to assist in a research project in the laboratory of biochemical genetics, national heart, lung and blood institute at the NIH. He admits being a little star struck at the tender age of 21 to have as a mentor, the late Marshall Nirenberg, PhD, who won the Nobel prize for deciphering the genetic code of DNA.

"That's what I mean by opportunity," Velarde says. "Dr. Nirenberg was a phenomenal human being and an unbelievable mentor. He would come over to where I was working, ask how my experiments were going,

Once I started looking into the possibilities within MD/PhD programs, and the advantages for a medical doctor to better understand the science that drives treatment and cure, I knew this was what I wanted.

and assure me he was there to help if I needed him. A few years later, when I was in medical school, we had a retreat, and I invited him to speak. He accepted, and I remember how impressed I was again at his genuine interest in talking to us."

People don't generally think of medical students as having time for volunteer activities. Velarde, however, managed to find hours to help out several worthy causes throughout his school years. He tutored English to Spanish-speaking adults through a charitable organization in downtown Baltimore. He visited AIDS patients in Madrid while studying abroad during college, and was one of many students throughout the university who provided continuing education about AIDS prevention to students in Baltimore schools.

As for the future, Velarde hopes for a career in academic medicine. "I want to be a good clinician," he says. "I want to be a good infectious disease specialist, and I want to be successful in my research. I know this will take a number of years," he adds. "I'm in no hurry. I hope that doesn't sound as if I'm not ambitious. I am, but I know my future is still in the formative stages. Eventually, I'd like to do research 75 percent of the time. Ideally, Jim Nataro is the model I would most like to emulate, and that's an ambitious goal." 

student activities

The Junior Bull Roast

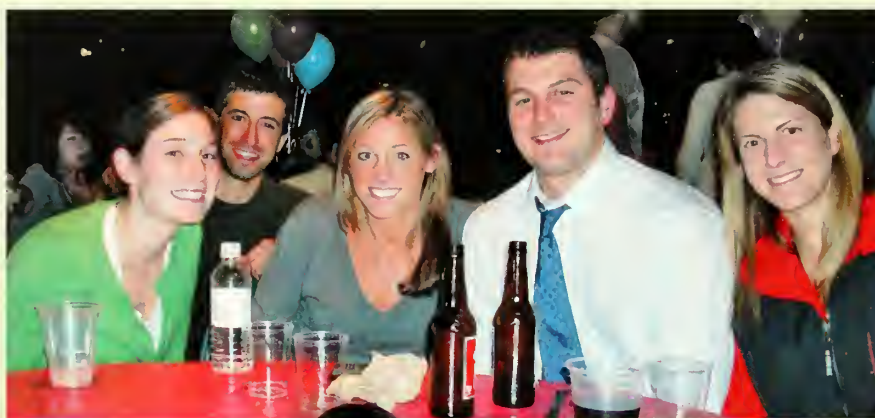
More than 100 juniors were able to break free from rotations to attend the annual bull roast celebration at the MSTF Atrium on December 10. The event, sponsored by the Medical Alumni Association, is designed to reunite the third-year class after a busy semester of rotations. This year four of the MAA-sponsored student activities—including the bull roast—were underwritten by **Carolyn McGuire-Frenkil**, a member of the medical school board of visitors. Faculty in attendance included vice dean **Bruce Jarrell, MD**, assistant dean for student affairs **Donna Parker, '86**, husband **Nevins Todd, '86**, and **Richard Colgan, MD**.



Above: Peter MacArthur, '11, Thao Nguyen, '11, Carolyn McGuire-Frenkil, Bruce Jarrell, MD, Elizabeth Le, '11, and Ravindra Gopaul, '11. Below: Third-year students Lindsay Appel, Julien Dagenais, Morgan Katz, Matt Peters, and Barbara Kahn.


Annual Thanksgiving Feast Serves 400

Project Feast, a university initiative headed by medical students to serve Thanksgiving meals to the homeless, served 400 people at the Booker T. Washington Middle School on the national holiday. In addition to a hot meal, participants received bags of clothing and non-perishable food donations. They also enjoyed music performed by an oboe player. This year's organizers were **Beth Lidinsky, '12**, and **Katie Duncan, '12**.



Second-year students enjoying the Sophomore Social included Katie Shaeffer, Bryce Olenczak, Jordan Ambrose and Joy Chang

Sophomore Social

More than 70 members of the class of 2012 gathered at the Waterfront Hotel in Fells Point for the MAA-sponsored Sophomore Social on January 7. This annual party is held during the first week of classes in January as students return from the winter break. Participants were treated to appetizers, beer, wine, and soft drinks. Organizers included **Anna Binstock**, **Joy Chang**, and **Khola Tahir**, members of the MAA Student Advisory Committee. 



advancement

Philanthropy Recovering with Economy



Dennis Narango

The number of charitable gifts from individual donors to the medical school seems to be climbing in FY10, and gift amounts could reach record levels this year, according to the medical school and alumni association.

Last year a faltering economy combined with a plummeting stock market seemed to spook a good number of would-be donors. Nationally, revenues from gifts of \$1 million and above fell nearly 70 percent. Total giving to the medical school rose nonetheless on

the strength of a few large gifts and foundation grants.

But the tide for individual donors is showing some signs of turning. Through January 31 of the fiscal year, medical school gifts total \$45 million, up from \$29 million during the same period last year. "We don't want to be over-confident because we're only seven months into the fiscal year," cautioned Dennis Narango, associate dean for advancement. "A lot of things can happen, but the numbers certainly look encouraging."

Lead gifts include:

- \$4 million in research support for the school's center for vaccine development, from the Bill & Melinda Gates Foundation;
- \$3 million to establish the Xcision

Endowment for Radiation Oncology Program Support, from Yi, Yu and Lerma, LLP;

- \$1 million to support related research and patient services for otorhinolaryngology, radiation oncology and the PATCH Fund, from the Orokawa Foundation

The number of donors is also up about five percent. "It's rewarding to increase the donor pool each year as well," according to Larry Pitrof, executive director of the Medical Alumni Association. "Despite a heavy debt load our recent graduates carry, many still find a way to make a gift to their medical school."

Fund raisers are optimistic that the school will eclipse last year's \$53.8 million raised in gifts and pledges.

Diversity Dinner Cancelled by Inclement Weather

The blizzard that shut down Baltimore and much of the state this winter forced the cancellation of the third annual Celebrating Diversity Dinner on February 6. The event had drawn nearly 200 reservations from alumni, faculty, students, and prospective students. Myron Weisfeldt, MD, the William Osler Professor of Medicine and chairman of the department of medicine at Johns Hopkins Medical School was to be the keynote speaker. He was recipient of the 2008 diversity award, presented by the Association of Professors of Medicine. Proceeds from the event benefit the Dr. Donald E. Wilson Endowed Scholarship Fund. The event could not be rescheduled but will be held again next year. 🏠



Save the Date and Help Save Lives

Maryland Half Marathon

13.1 mile race • 2 Person Team Relay • Kids Fun Run

May 23, 2010 • 7:00 a.m.

Timonium Fairgrounds

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Heed Your Estate Plan

Benjamin Franklin once wrote a colleague, "...in this world nothing can be said to be certain, except death and taxes." Presently, however, making the decision of how to tax at death is anything but.

Most expected Congress to enact a "patch" that would apply the \$3.5 million per person estate tax & GST tax exemptions and the 45 percent top rate of 2009 to 2010. It was then hoped that in the interim Congress could accomplish a long-term resolution to the estate tax system.

However, as a result of Senate inaction on this issue, a full repeal of the estate tax and the generation-skipping transfer (GST) tax took effect on January 1, 2010. Also repealed are the rules allowing for a "stepped up" basis for a decedent's assets for capital gains tax purposes.

In the meantime, the federal gift tax remains in effect, with a \$1 million per person lifetime exemption and \$13,000 per donee annual exclusion. For any gifts above the exemption, the top gift tax rate has decreased from 45 percent to 35 percent.

If there is no Congressional action this year, then in 2011 the federal estate tax and GST tax would once again take effect, as would the "stepped up" basis rules, with a lower \$1 million per person exemption and higher 55 percent top rate for each of these taxes.

The only thing certain right now besides death and taxes is that you should contact your attorney to consider whether amendments to your estate planning documents are warranted. Temporary repeal may create potentially unintended negative consequences under the formula clauses of some individual's Wills and related trusts, which could not have been contemplated when those documents were drafted.

Furthermore, temporary repeal may create other wealth transfer opportunities. For example, distributions from trusts otherwise subject to GST tax might avoid this tax. Moreover, gifts could be made at the lower 35 percent top gift tax rate, and gifts to beneficiaries or trusts that would otherwise be additionally subject to GST tax would only incur gift tax liability.

Keep in mind there are risks to acting on the temporary repeal. Senate leaders have promised swift action in 2010 to restore the estate tax and GST tax, and there is discussion to make them retroactive to January 1, 2010. This could result in a much higher tax liability. (It also brings in question the possibility of a successful Constitutional challenge to the retroactive imposition of tax.)

Regardless, we encourage you to contact us and/or consult your other advisors with respect to the estate tax issue. 🏠

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This column is prepared by Doug Holthaus, vice president and relationship manager at PNC Wealth Management. He can be reached at 410-237-4590 or douglas.holthaus@pnc.com.

1939: Oscar Hartman and wife Lee of Sarasota, Fla., recently celebrated 70 years of marriage.

1943M: David B. Gray of Charleston, WVa., turned 93 on February 13. He reports that West Virginia has its advantages, but regrets that he is unable to visit Baltimore anymore.

1944: Warren D. Brill of Chevy Chase, Md., retired as full clinical professor emeritus of medicine at the George Washington University School of Medicine. **1945:**

Stanley R. Steinbach of Baltimore reports that he is tolerating retirement, thanks to Tylenol, bridge, classical music, family, and the fact that he can sleep until 9 a.m.

One of his granddaughters practices family medicine, and another is a school principal.

1947: Jose G. Valderas enjoys living in Keller, Texas. **1949:** Nathan Schnaper

of Baltimore reports that son Bill, '75, of Chicago has received the Irene and Henry Portic Endowed Chair at Northwestern University where he is professor of pediatric research.

1952: Bella Schimmel-Desser of Los Angeles

maintains an office clinical practice, teaches at UCLA and the New Center for Psychoanalysis, works at a community counseling clinic, and does horticulture therapy in special education classes for the L.A. Unified School District. **1953:**

John W. Metcalf of Steubenville, Ohio, was honored by the Ohio State Medical Association for 50 years of service. He continues practicing and volunteers at two clinics for the medically indigent. **1954:**

Daniel H. Framm of Potomac, Md., continues practicing ophthalmology full time in Vienna, Va., with daughter Lisa Sklar. He recently celebrated his 80th birthday, and he wishes his classmates well! **1955:**

Paul G. Mueller is in an assisted living facility in Pasadena, Md. **1956:** Charles

Sanislow of Midland, Mich., continues to enjoy partial retirement with wife Sallie, four children, and eight grandchildren. Work focuses on management of his hospital's vascular laboratory. **1957:** Marvin S. Arons of Woodbridge, Conn., received a

lifetime achievement award from the Yale Medical School Section of Plastic Surgery.

Warren S. Poland of Washington, D.C., was recipient of the 2009 Sigourney Award, recognizing distinguished contributions to the field of psychoanalysis. Poland's focus has been on the psychoanalytic process and the application of psychoanalytic thought to broad cultural issues. He is author of *Melting the Darkness: The Dyad and Principles of Clinical Practice*. **Landon**

Clarke Stout of Galveston, Tex., is working half time in the pathology department at the University of Texas Medical Branch in Galveston where he has been since 1972. His spare time is spent remodeling houses.

1958: Gaylord L. Clark of Stevenson, Md., reports that 2009 was a good year for him! **1959:** Daniel S. Sax of Randolph

Center, Vt., reports that the abundance of rain and seasonal temperatures throughout

autumn created a banner year for his trees of apples, crab apples, pears, plums, and

apricots, and he was able to make crab apple jelly, applesauce and cider—sweet

and hard. Sax continues to enjoy neurology as a consultant at Peoples Health and

Wellness Clinic and in the department of neurology at Dartmouth Medical School.

1960: Wilson A. Heefner

of Stockton, Calif., published *Dogface Soldier: The Life of General Lucian K. Truscott Jr.*, now available at Amazon.

com. A military historian, Heefner has also authored *Patton's Bulldog: the Life and*

Service of General Walton H. Walker and *Twentieth Century Warrior: The Life and*

Service of Major General Edwin D. Patrick. **Emanuel H. Silverstein** of Baltimore limits

his work to the mornings but continues to enjoy his dermatology office practice.

He is relieved, however, that there is no longer the pressure of a full waiting room.

Morton E. Smith of St. Louis received the Samuel Goldstein Leadership Award in

Medical Student Education at Washington University. During the annual meeting of the

American Academy of Ophthalmology in October 2009, he delivered the Zimmerman

Lecture. **1961:** Michael B.A. Oldstone of La Jolla, Calif., recently published *Viruses,*

Plagues, & History: Past, Present, and



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- ◆ Building a network among students, residents, faculty, and alumni
- ◆ Promoting a sense of solidarity and pride within the University of Maryland academic community
- ◆ Enables students to bond, to discover a mentor, and to prepare for professional life by bringing people together in a relaxed, candid, personal atmosphere.
- ◆ Interested doctors contact LinkMD with a date, time, and venue at which they would like to host an event, and an electronic sign-up is posted on MedScope, a website available to Maryland medical students.
- ◆ Hosting an event means providing dinner at their house, at a restaurant, meeting students for happy hour or sharing a hobby (running, biking, bowling, etc) with similarly interested students.
- ◆ While providing exposure to a specific field of medicine, students are also able to gain insight into the personalities that are drawn to different specialties.
- ◆ If you are interested in hosting an event or learning more about LinkMD, please email linkmd@som.umaryland.edu or visit <http://web.me.com/link-maryland>.

Future, by Oxford University Press. **1963:** Edward C. Werner and wife Georgia of Washington, D.C., have been traveling extensively since Werner's retirement 12 years ago. They have been taking cruises and visiting with classmate Chris Tountas and wife Rose of Mount Pleasant S.C. **1965:** Charles S. Harrison of Zanesville, Ohio upon retirement from his general surgery

practice in 2005, traveled for one year before volunteering to run a surgical clinic at the local health department. He now works one-half day a week while enjoying retirement and family time. **Ann Robinson Wilke** of Advance, N.C., continues consulting in her specialty of cardiology, but reports that her best achievements are her two children and five grandchildren. Her son is a sergeant with the Asheville Police Department who recently returned from Iraq. He remains in the reserves as a lieutenant colonel. Daughter Mauri has her own family therapy practice in Asheville.

1966: Charles H. Classen of Kinston, N.C., was named East Carolina University Practice Teacher of the Year for a third consecutive time, and he was also given the orthopaedic surgeon of the year award by the North Carolina Orthopaedic Association.

1969: Samuel D. Goldberg of Potomac, Md., is president of the American College of Cardiology Maryland Chapter.

1970: Julian Gordon of Beachwood, Ohio, is teaching part time at the medical school at Case Western Reserve and practicing locum tenens urology in underserved areas of Ohio. He and wife Ilka are proud grandparents of eight. **Charles "Buz" Marek Jr.** and wife Nancy of Middle River, Md., are about to become grandparents for the first time. Marek retired in 2008. **1972: H. Hershey Sollod** of Denver reports that he has four wonderful grandsons all under the age of three. **1973: Barbara W. Siskind** of Columbia, Md., reports that daughter Leah, PhD, is a research assistant professor at the Medical College of South Carolina with two children, while daughter Robin recently received a bachelor of science degree in neurophysiology from College Park. **1974: Michael H. Hotchkiss** and wife Judy of Potomac, Md., have a new granddaughter, Camryn Grace. **1975: Karl W. Diehn** and wife Kathy of Baltimore report that daughter Megan has returned to school to become a nurse practitioner after working as a retinal photographer; son Karl graduated from the Culinary Institute of America in Napa Valley, Calif., and has worked with the Planet Green Network; daughter **Kate** is

a second-year medical student at Maryland; and son Kevin is a senior in chemical engineering at College Park where he leads an Engineers Without Borders project in Africa, providing electrical power to five outlying medical clinics. **Thom E. Lobe** of Memphis, Tenn., was awarded a lifetime achievement award by the Asian Association of Pediatric Surgeons for his pioneering work in pediatric minimally invasive surgery at the association's 22nd Clinical Congress in Malaysia. **1977: Marc Bresler** of Encino, Calif., now in his 30th year with Kaiser Permanente, is taking a three-month sabbatical in September to volunteer with Magen David Adom, the Israeli branch of the International Red Cross. During this time wife Barbara will be studying in Jerusalem during her fourth year of training at the Ziegler School of Rabbinic Studies of the American Jewish University. **1978: Francisco A. Smith** of Naples, Fla., retired from the practice of OB/GYN on January 1.

1980: Robert G. Ammlung of Randallstown, Md., has joined MDVIP and reports that several other alumni-colleagues have done the same. **Jeffrey Kleiman** practices family medicine outside of Boston. **Anne D. Lang** of Baltimore practices pediatrics in Catonsville with classmate **David Otto**. She has two children in college and a third in eighth grade; so she will not be retiring anytime soon. Lang looks forward to seeing everyone at the 30th reunion. **Roy T. Smoot Jr.**, of Saint Michaels, Md., is chief medical officer at Kerner Hospital. **Louis W. Solomon** of Gainesville, Fla., is director of the brain simulation unit at the University of Florida. **1982: Darryl Kurland** of Princeton, N.J., reports that son Jason is a first-year nephrology fellow at Brown University, and son Brian is working up Macy's management ladder. Kurland continues in HIV, HCV, and TB research with Johnson&Johnson focusing on drug safety, while wife Caryn remains in neurological

BOOKS



Alignment

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Co-authors Morton I. Rapoport, '60, former CEO of UMMS, and Stephen Schimpff, MD, former CEO of UMMC, trace the growth of University of Maryland Hospital from its birth as a private, not-for-profit enterprise in 1984 to a thriving, nine-hospital system today.

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research. **1985: J. Stephen Dumler** of Ellicott City, Md., is recipient of the 2010 American Society for Microbiology BD Award for Research in Clinical Microbiology. A professor at Johns Hopkins, Dumler is recognized for his contributions in the field of human granulocytic anaplasmosis.

◆ **Steven J. Schoenfelder** of Lewisburg, Pa., enjoyed thru-hiking the Appalachian Trail in March. **1987: Charles P. Fitch** of Clarksville, Ind., opened an ophthalmology office and surgery center, thanks to wife Ruth who serves as the center's administrator. Daughter Jessica is working toward a second degree in nursing at Austin Peay State University, while daughter Amanda is in the nurse-practitioner program at Vanderbilt. Son Dylan is a sophomore at Belmont University. ◆ **D.V. Woytowitz** has relocated to Wexford, Pa., to start anew in this beautiful suburb of Pittsburgh. **1989: Neri M. Cohen** of Owings Mills, Md., is medical director of Greater Baltimore Medical Associates and president of GBMC Physicians.

1990s **1990: Nicholas M. Cardiges** and wife Stacie of Fogelsville, Pa., announce the birth of Evan Paul on November 20, 2009. He joins brothers Michael, age 11, John, age nine, and Luke, age six. ◆ **Michael E. Rauser** of Redlands, Calif., is residency program director and vice chairman of clinical affairs in the department of ophthalmology at Loma

Linda University, where he was recently recognized for 10 years of dedicated service.

1992: Claudia Montgomery-Hays and husband Steve live in Annapolis with their two teenage children. Her OB/GYN practice continues to do well. **1994: Thomas A. Hensing** of Glenview, Ill., has joined the faculty at the University of Chicago Pritzker School of Medicine and is currently co-director of the thoracic oncology program at NorthShore University HealthSystem.

◆ **Louis B. Malinow** of Owings Mills, Md., is in year two of an MDVIP practice. He is the only physician in Maryland certified as a diplomate of the American Board of Clinical Lipidology and ASH-certified as a hypertension specialist. **1997: Brian Newcomb** of State College, Pa., invites interested parties to join him for a future spring break medical mission to Nicaragua. He was there in March, working under the ministry of health. He and wife Celeste included children Maryann, age 10, William, age eight, and Alexandra, age three. **1998: Jonathan Davis** of Bethesda, Md., reports the birth of son Matthew in February 2009. He joins sister Marisa.

2000s **2000: Shelleye-Anne M. Bailey** of Brooklyn, N.Y., works with pediatric residents at SUNY Downstate and is building her own practice at Kings County Hospital. She looks forward to the 10th reunion in spring! ◆ **Morgen Bernius** and husband Scott Williams of Perry Hall,

Md. proudly announce the birth of Sophia Shay, born April 9, 2009. **2003: Jason Custer** will be joining Maryland's faculty in the department of pediatrics later this year, following completion of a pediatric critical care medicine fellowship at Johns Hopkins. He and wife Melissa live in Ellicott City with two-year-old daughter Allison. ◆ **Karen Sutton** and husband Gregg Wysocki of

Fairfield, Conn., announce the birth of son Luke on November 23, 2009. ◆ **Richard A. Tempel** and wife Amanda of Celebration, Fla., announce the arrival of Logan Matthias, their first, on April 9, 2009. Tempel works for Florida Emergency Physicians and is the emergency ultrasound coordinator for Florida Hospital-Celebration Health.

2005: Bryan Loeffler of Charlotte, N.C., is planning a one-year fellowship in shoulder and elbow surgery at Thomas Jefferson/Rothman Institute (Pa.) in summer 2011. ◆ **Jennifer A. Roth** of Jacksonville Beach, Fla., is a sports and family medicine consultant for the Mayo Clinic's division of regional medicine.

2006: Regina Macatangay of Elkridge, Md., is starting a pediatric hematology/oncology fellowship at Memorial Sloan-Kettering in July. **2007: Chanda Reese** of St. James, N.Y., is enjoying her OB/GYN training at Stony Brook University Hospital in Long Island. She announces her engagement to Dr. Leon Plowright. **2008: Michael Hornbecker** of Zionsville, Ind., will serve as chief resident for the internal medicine program at St. Vincent Hospital beginning in July. 🏥

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly Bulletin magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

Everett S. Diggs, '37

Towson, Md.

January 22, 2010

Upon graduation, Dr. Diggs performed his internship and received residency training in gynecology and female urology at Maryland. He began in private practice but was soon commissioned as an officer in the U.S. Army during World War II. He was assigned as chief of urology in Australia, the Philippines, and Japan with Maryland's 42nd General Hospital. He was discharged in 1945 and returned to Baltimore to resume his private practice and serve as clinical assistant professor of gynecology at Maryland. Diggs became chief of GYN at the Hospital for Women of Maryland and directed its residency program. He continued in these capacities after the merger with Presbyterian Eye, Ear, Nose and Throat Hospital, forming Greater Baltimore Medical Center (GBMC) in 1965. He served as chief of staff from 1968 to 1974 and was also a member of its board of trustees. He retired in 1981. Diggs enjoyed woodworking, photography, gardening, and fishing, and he is survived by wife Emma, one son, one daughter, and three grandchildren.

Herbert Spiegel, '39

New York City

December 15, 2009

St. Francis Hospital in Pittsburgh was the site of Dr. Spiegel's internship, followed by residency training in psychiatry at St. Elizabeth's Hospital in Washington, D.C. While serving as a battalion surgeon with the U.S. Army Medical Corps in North Africa during World War II, Spiegel witnessed the power of hypnosis in treating severe combat stress. A Freudian analyst, he later came to see traditional psychoanalysis as too expensive and open-ended—and hypnosis as a way to accelerate healing. He began treating pain, anxiety, and addictions by putting people into a trance and witnessed positive outcomes for some patients after a single visit. As his reputation grew, actors, politicians, and prominent people from around the world traveled to his office in New York City for treatment. *Trance and Treatment: Clinical Uses of Hypnosis*,

co-authored with son David Spiegel, MD, is recognized as a classic in the field. Spiegel was the recipient of numerous awards, and he held faculty appointments at a number of institutions including Columbia University, New York University, and John Jay College of Criminal Justice. He enjoyed both riding and jumping horses. In addition to his son, Spiegel is survived by wife Marcia Greenleaf, PhD, one daughter, and four grandchildren. His first marriage to Natalie Shainess ended in divorce.

Pearl H. Scholz, '41

Baltimore

March 10, 2010

Dr. Scholz received training at Baltimore City Hospitals, Children's Hospital of Philadelphia, Johns Hopkins Hospital, University of Maryland, and Sheppard Pratt. Her specialty was child-adolescent psychiatry, and she served on the faculties of Maryland and Johns Hopkins, in addition to a private practice until 1984. She enjoyed classical music, sailing, golf, and travel. Scholz is survived by four children including **Richard T., '79**, and five grandchildren. She was preceded in death by husband Roy.

William B. Hagan, '43M

Hyattsville, Md.

March 5, 2010

Maryland was the site of Dr. Hagan's internship and residency training in general surgery. He maintained a private practice for 34 years and was chief of surgery at Prince Georges General Hospital where he also served on its board of directors. Hagan was an assistant professor of surgery at Johns Hopkins Hospital and also had privileges at Doctors Hospital of Prince Georges County and Providence Hospital. He enjoyed woodworking, photography, fishing, boating, and computers, and for many years was a phonathon volunteer for the MAA's annual fund. He was preceded in death by wife Eleanor and is survived by two daughters.

Robert V. Minervini, '43M

Hagerstown, Md.

November 21, 2009

Upon graduation Dr. Minervini was commissioned as a lieutenant in the U.S. Navy Medical Corps. He received three Battle Stars during his three years of naval service during World War II, seeing action in the invasions of Anzio, Elba, and Southern France. Minervini interned at Yonkers General Hospital and received residency training in surgery at New York Medical College. He later served there as an assistant professor of surgery, as well as director of surgery and chief of staff at Yonkers General Hospital. Additional appointments included chief of surgery at St. John's Hospital in Yonkers and assistant attending surgeon at Flower-Fifth Avenue and Metropolitan hospitals. He retired to Hagerstown, Md., in 1982 where he enjoyed photography and computers. Minervini is survived by wife Doris, two children, one stepdaughter, two grandchildren, and one stepgranddaughter.

J. Emmett Queen, '43M

Timonium, Md.

March 7, 2010

Dr. Queen received training in internal medicine at Mercy Hospital. From 1945 to 1947, he was a captain in the U.S. Army Medical Corps, and then returned to Baltimore to begin private practice. Queen was an instructor at Maryland, staff physician at Johns Hopkins Hospital, and also had privileges at Mercy and Bon Secours hospitals. In 1970, he became medical director at Maryland Blue Cross and Blue Shield where he remained until retirement in 1983. From 1958 until 1982, he served as a part-time physician for the Baltimore Fire Department. Queen was the personal physician of Maryland governor and later U.S. vice president Spiro T. Agnew, and the two were tennis partners. Queen also played doubles tennis with President George H. W. Bush. He enjoyed seafood, playing golf, and bird and duck carving. Queen is survived by wife Lillian, two sons, two daughters, and four grandchildren.

Arthur O. Wooddy, '43M

La Plata, Md.

March 10, 2009

in memoriam

Dr. Woody joined the U.S. Navy after graduation and interned aboard the USS Maury in the Pacific. At the end of World War II, he completed training at Bethesda Naval Hospital. After fulfillment of his military commitment, Woody established a family practice in La Plata, Md., where he remained until retirement in 2001. He was a founder of Physicians Memorial Hospital and served as chairman of its department of medicine from 1947 to 1970. He was also a trustee of the hospital from 1960 to 1989. Woody was the founding father of the Charles County Medical Society and served as its president. He enjoyed pottery making and served as a member of the La Plata Town Council. Woody was preceded in death by one son and is survived by wife Joan Sutton, two sons, one daughter, and two grandchildren.

William K. Brendle, '45
Havre de Grace, Md.
February 4, 2010

Mercy Hospital in Baltimore was the site of Dr. Brendle's internship. During World War II, he served as a flight surgeon in the Army Air Forces and later retired as a lieutenant colonel from the Maryland Air National Guard. He received residency training in general surgery at Maryland General Hospital and at Vanderbilt University in Nashville, Tennessee. Post-graduate training followed at the University of Pennsylvania. Brendle returned to Maryland and in 1953 set up a general surgical practice in Havre de Grace and Fallston. Appointments included chief of staff and chief of surgery at Harford Memorial Hospital. He retired in 1987. Brendle enjoyed wood carving with a specialty in duck decoys. He was a volunteer at the decoy museum in Havre de Grace and served as wildlife commissioner for the State of Maryland during the 1970s. He also enjoyed playing chess, collecting stamps, and he served as a member of the board of directors for Columbian Bank. Brendle is survived by wife Evelyn, two daughters, and two grandchildren. He was preceded in death by daughter Kathleen.

Frank A. Shallenberger Jr., '46
Tucson
January 17, 2010

Dr. Shallenberger was a member of the U.S. Army from 1941 to 1950, serving in the European Theater for two years during World War II. He interned at Maryland and received residency training in internal medicine at St. Mary's Hospital and Pima County General Hospital in Tucson. From 1950 until retirement in 1986, he practiced family medicine in Tucson and afterwards locum tenens. He served on the staffs of St. Joseph's Hospital, St. Mary's Hospital, Tucson Medical Center, El Dorado Hospital, and he was an associate professor of family medicine at the University of Arizona. Later Shallenberger served as a medical consultant to the department of economic security for the State of Arizona. He was a founding member and past president of the Arizona Academy of Family Practice. A licensed minister, Shallenberger enjoyed writing, preaching, and teaching. Hobbies included travel, photography, and computers. He is survived by wife Yvonne, son **Frank III, '73**, two daughters, three step-children, 13 grandchildren, and five great-grandchildren. He was preceded in death by son Robert.

Donald E. Fisher, '47
Walhalla, S.C.
January 30, 2009

After training in pathology at Church Hospital in Baltimore, Dr. Fisher decided on a general practice which he operated in Catonsville. An attack of polio in 1950 limited his ability to work long hours; so he became public health director in Carroll County and later Prince Georges County and Montgomery County. He later held the top medical post for the Maryland's correctional system. Thereafter he moved to St. Michaels where he trained in emergency medicine and then practiced at a small hospital in Maine. Fisher is survived by wife Barbara, two daughters, one grandson and two great-grandsons.

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David M. Solomon, '51
Walnut Creek, Calif.
January 21, 2010

Sinai Hospital in Baltimore was the site of Dr. Solomon's internship and residency training in OB/GYN. Upon completion of training, he remained on the staff at Sinai as well as Baltimore County Hospitals in the practice of obstetrics and gynecology. Solomon later served as a GYN consultant at Spring Grove and Crownsville State Hospitals, as well as Sheppard Pratt. He also held an instructor position at Johns Hopkins. In retirement he moved to Walnut Creek, Calif., where he enjoyed collecting stamps, coins, and wine. Solomon is survived by wife Karolyn, four children, and 11 grandchildren.

Benjamin A. Addison, '52
Brunswick, Ga.
December 19, 2009

Walter N. Himmler, '55
Lavale, Md.
March 8, 2010

Upon graduation Dr. Himmler received training in urology and returned to his hometown of Cumberland to establish a private practice in 1960 and continued for 40 years. He retired in 2000. Himmler was a member of the Potomac Lodge 100, A.F. & A.M., and 32nd degree, Cumberland Scottish Rite Bodies, Ali Ghan Shrine, and a past director of of Cumberland Court 117, R.O.J. He is survived by wife Velma and one son.

Loretta A. K. Gilmore, '57
March 2, 2010
Annapolis, Md.

Dr. Gilmore trained in pediatrics and served as medical director of the DC Children's Center in Laurel, Md., until retirement in 1980. She enjoyed golf, line dancing, and playing bridge. Gilmore also liked to travel.

She took a two-week cruise on the 50th anniversary of D-Day which included two days in Normandy. Gilmore was preceded in death by husband James and is survived by daughter Robin and several nieces and nephews.

Charles R. Mock, '63
Bowie, Md.
October 19, 2009

Upon graduation, Dr. Mock spent 26 years in the U.S. Navy. After internship, he attended flight school in Pensacola, Fla., and in 1967 was the lead diving medical officer during construction of the Newport-Jamestown bridge in Rhode Island. The following year he was transferred to Quonset Point Naval Station, R.I., where he was senior medical officer aboard the USS Essex. One of his missions was to retrieve the Apollo 7 space capsule landing in the Atlantic Ocean and attend to its three astronauts. Mock returned to Maryland in 1969 as senior medical officer of the Naval Air Facility in Washington D.C. After two additional assignments, he retired in 1984 as commanding officer of the Naval Health Sciences Education and Training Command. One year later he joined the Johns Hopkins Health System as a practicing physician and later as an administrator. He was appointed assistant professor of pediatrics at Johns Hopkins University in 1990 where he consulted on hearing disorders of children. He became vice president for medical affairs of the Johns Hopkins Health System before retiring in 2000. In his second retirement, Mock established a medical consulting business and served as medical director for Nighttime Pediatrics of Annapolis, a company he helped build. An advocate for children with hearing, speech, and language disabilities, he helped found Children Handicapped in Language Development, serving as its president for several years. He was an accomplished pianist and organist, enjoyed cycling, running, boating, fishing, and sharpshooting. Mock is survived by wife Bette, three children, and one granddaughter.

William G. Bruce, '65
Panama City, Fla.
December 2, 2009

From 1967 to 1970, Dr. Bruce was a flight surgeon in the U.S. Navy. He received residency training in general surgery at Maryland and then served a fellowship in surgical oncology at MD Anderson Cancer Center in Houston. He relocated to Panama City in 1978 and began a private practice of general and oncological surgery. Bruce served on the staffs and as chairman of the departments of surgery at Bay Medical Center and Gulf Coast Medical Center. From 2000 to 2006, he was a member of Bay Medical Center's board of trustees, and after retirement in 2006 served as medical director for its wound healing center. Bruce is past president of the Bays Medical Society, and for 28 years he was an active member of the local chapter of the American Cancer Society. Bruce enjoyed flying and for nine years served as president of Bay Aircraft Owners, Inc. He also served on the board of directors and was past president of the Panama City POPS Orchestra. Bruce is survived by wife Ann.

John M. McIntyre, '67
Baltimore
December 29, 2009

Dr. McIntyre received training at the University of Colorado until 1969 when he joined the U.S. Navy and spent two years at the Millington Naval Air Station in Memphis, Tenn., as a lieutenant commander. Additional residency training in orthopaedic surgery was followed by a fellowship in hand surgery, both at the University of Louisville. McIntyre then traveled to Oswestry, England, for additional training at the Robert Jones and Agnes Hunt Orthopaedic Hospital. He returned to Baltimore in 1976 where he established a private practice and had privileges at GBMC, Union Memorial, Good Samaritan. He also served as chief of surgery at Children's Hospital. He had a teaching appointment at Johns Hopkins School of Medicine and was a board member of the Gilman School. He retired in

1999. McIntyre enjoyed handball, making furniture, and travel. He is survived by wife Nancy, four sons including Thomas, '99, and five grandchildren.

Louis W. Miller, '67
Stevenson, Md.
August 30, 2009

After training, Dr. Miller served with the U.S. Public Health Service before opening a private general practice in Pikesville which he operated for three decades. Appointments also included assistant professor of medicine at Johns Hopkins Hospital. He is survived by wife Joyce, two children, and five grandchildren.

Maureen C. Prendergast, '82
Millersville, Md.
March 14, 2010

Faculty

William D. Lynn, MD
March 2, 2010
Baltimore

Dr. Lynn received surgical training at Maryland during the 1940s and remained on the faculty as an attending surgeon until retirement in 1985. A Baltimore native, Lynn graduated from Princeton University and received his medical degree from the Johns Hopkins School of Medicine in 1943. His training at Maryland was interrupted during World War II when he enlisted in the U.S. Navy. He served as ship physician aboard the USS Antietam assigned to the Pacific. He was discharged with the rank of lieutenant commander. Lynn returned to Maryland, completed training, and was hired as an attending surgeon at University Hospital. He was elevated to professor, ran the hospital's emergency room, and also operated a private practice. Lynn served on several medical school committees including one for medical school admissions. He collected flags and enjoyed attending lacrosse games. Lynn is survived by two sons and three granddaughters. He was preceded in death by wife Eleanor and son William. 🏠



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Schedule

135th Medical Alumni Association Reunion April 30 & May 1, 2010

Friday, April 30

8:30–10:30 am	Open House, Check-in & Continental Breakfast
9:00–9:45 am	Tour Maryland's Hospital: 25 Years Since Privatization
10:00–11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am–1:15 pm	135th MAA Luncheon & Business Meeting
1:30–3:00 pm	17th Historical Clinicopathological Conference
1:30–3:30 pm	Afternoon Check-in, Davidge Hall
3:30–4:30 pm	School of Medicine Tour
6:30–9:30 pm	The Happening at the Harbor, Baltimore Museum of Industry

Saturday, May 1

8:30 am–1:30 pm	Open House & Check-In
8:30–10:00 am	Continental Breakfast, Davidge Hall
9:30–10:30 am	Campus Walking Tour
10:45–11:45 am	Restoring Davidge Hall: An Update
11:30 am–2:00 pm	Complimentary Picnic, Davidge Hall
12:15–1:15 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:30–4:00 pm	Excursion to Fort McHenry
Evening	Class Reunions (years ending in "0" and "5")

University of Maryland

MedicineBulletin

Summer 2010 • Volume 95 • Number 1



Discovery &
Innovation

Transforming
Medicine



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MedicineBulletin

University of Maryland Medical Alumni Association & School of Medicine



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features

Discovery & Innovation 10

Research Capable of Transforming Medical Care

Maryland research has surged over the past two decades. In the short term it has dramatically expanded the school's physical plant, and insiders—including alumni—have enjoyed Maryland's elevated stature among the nation's 133 medical schools. In the long run, however, these initiatives are undertaken to relieve suffering, eradicate disease, and improve the health of every individual on our planet. In this feature, writer Jim Swyers provides updates on four game-changing research projects.

(cover illustration: Fotolia)

An Extra Mile for the Extra Edge 15

Epidemiology and Public Health

Supported by \$15 million in research funding and now offering 12 degree programs, Maryland's department of epidemiology and public health is out to shatter the perception that this discipline is nothing more than abstract science. Its 58-member department, consisting of epidemiologists, biostatisticians, and behavioral and social scientists is laboring to incorporate public health into virtually every professional school on the Baltimore campus.

The 135th Medical Alumni Association Reunion 24

Clinicopathological Conference, Crab Cakes & Comradery

Simon Bolivar, regarded as the George Washington of South America, was this year's subject during the historical Clinicopathological Conference—centerpiece of the Medical Alumni Association's annual reunion. The two-day celebration included tours, lectures, and social events targeting classes ending in "0" and "5."

Alumna Profile: Sangeeta Pati, '90 32

A Singular Path

A prolonged hospital stay at age 16 due to a near fatal attack of hepatic encephalitis would profoundly impact Sangeeta Pati, '90, in her pursuit of a balanced medical practice. Today she is president and medical director of the Saju Institute for Restorative and Regenerative Medicine in Orlando where her therapies combine conventional and natural medicine for thousands of patients each year.

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I believe that we are on the verge of a second "Golden Age" of biomedicine, one in which a new set of wonder tools and innovative approaches to treating diseases and medical conditions, such as genomics, stem cells, structural biology, etc., will allow medicine to become much more personalized and better targeted; so that it is not only more effective but far less toxic to the patient. Just as antibiotics heralded in the first Golden Age of medicine in the latter part of the 20th Century by greatly extending life as well as quality of life for people around the world, I believe these new tools and approaches will allow us to live longer, happier, and more productive lives.

This issue of the *University of Maryland Medicine Bulletin* features five imaginative projects highlighting discovery and innovation at our medical school. I believe they will catalyze fundamental changes at many different levels in their respective fields and help transform the practice of medicine and health care delivery in ways we cannot yet imagine.

The first feature entitled "Discovery and Innovation" presents four short vignettes of recently launched projects by faculty and their collaborators that offer to transform how specific diseases or medical conditions are viewed and treated, as well as how whole fields of investigation are conducted. Indeed, these innovative research projects have the potential to catalyze literally "quantum leaps" not only in their respective fields but in many related fields of biomedical research and clinical practice. More importantly, they offer to significantly accelerate the development of life-saving therapies for conditions where no acceptable treatments currently exist.

These innovative research projects have the potential to catalyze literally "quantum leaps" not only in their respective fields but in many related fields of biomedical research and clinical practice.

Just as the discovery and development of penicillin and other antibiotics in the late 1930s and early 1940s virtually eliminated death from bacterial infections in the latter half of the 20th Century, I believe these types of investigations have the potential to alleviate a great deal of unnecessary deaths and human suffering in the not-too-distant future, and that we are truly blessed to be able to witness the dawn of this second Golden Age of biomedicine.

E. Albert Reece

E. Albert Reece, MD, PhD, MBA



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs, University of Maryland
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Dean, School of Medicine
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The second feature focuses on our department of epidemiology and public health, headed by Jay S. Magaziner, PhD, professor and chairman. His department is redefining itself by a method that not only changes the way students view diseases and patients but also how they ultimately will practice medicine and, hopefully, conduct research to improve the practice of medicine.

Just as the discovery and development of penicillin and other antibiotics in the late 1930s and early 1940s virtually eliminated

Remembered

Larry Anderson, PhD

Larry Anderson, PhD, anatomy instructor at Maryland since the late 1970s, died unexpectedly at his home on May 15. He was 62.

Born in a suburb of Detroit, Anderson received a PhD in physiology and biochemistry from Wayne State University in 1976. He came to Maryland later that year as an NIH postdoctoral fellow in reproductive endocrinology in the department of physiology, working with Cornelia Channing, PhD, and her study of the hormone inhibin.

Upon completion of his fellowship, Anderson was encouraged to apply for a faculty position in the department of anatomy. After teaching a seminar in the department for one year, he was offered the position. Anderson taught anatomy as well as structure & development to freshmen students for 30 years, serving as course master for the past decade. It is estimated that he instructed more than 4,500 medical students—more than half of the school's living alumni—during his tenure.

Alumni recall fondly Anderson's words at the beginning of his anatomy course: "This is your first patient. I expect you to extend the same respect to the cadaver on the dissection table as you will to patients who will later fill your offices."

They also remember him for his compassion, friendship, and enduring encouragement. He also advised them to maintain a balanced perspective on life. Anderson received countless awards and honors, including being named the 2006 University of Maryland

Baltimore Teacher of the Year, serving as chairman of the Maryland State Anatomy Board, and being named a charter member of the University of Maryland School of Medicine Academy of Educational Excellence.

In addition to serving as professor of anatomy and neurobiology and course director for structure & development, Anderson continued his funded research with graduate students and post-doctoral fellows. Two of his research efforts were associated with reproduction—the role of androgens in regulating various cellular and molecular characteristics involved in the growth, development, and differentiation of one compartment within the follicle of the ovary, the granulosa cells; and a collaboration with the department of epidemiology and toxicology on the effect of paternal lead exposure on embryo development and subsequent generations.

Since he was a youngster, Anderson had a passion for race cars and was the owner of a 1965 AC Cobra, 1964 Pontiac GTO, and 2005 GTO which he maintained himself.

Survivors include wife Shirley, two children, and two grandchildren. The family has established a memorial fund to benefit medical students. Gifts are warmly received by the Medical Alumni Association of the University of Maryland, Inc., 522 W. Lombard Street, Baltimore, MD 21201-1636 or on our website: www.medicalalumni.org.

A memorial service has been scheduled for Larry Anderson on Thursday, September 16, at 4:30 p.m., at Westminster Hall. All are welcome. 🕊



*Alumni remember him for his compassion,
friendship, and enduring encouragement.*

EVENTS Shock Trauma Expanding

A groundbreaking ceremony on May 13 featuring Maryland governor Martin O'Malley, state senator Francis X. Kelly, and Baltimore Orioles icon Cal Ripken Jr., marked the start of expansion for the R Adams Cowley Shock Trauma Center. Considered phase IV of the medical center's strategic facilities development plan, the nine story, \$160 million addition includes 10 state-of-the-art operating rooms and 64 new and replacement beds, as well as another rooftop landing pad.

The present Shock Trauma Center opened in 1989, and by 2008 was handling nearly 64,000 visits; this number is expected to grow to 80,000 by 2016. The State of Maryland is contributing \$50 million over five years, with additional support coming from the federal government and from medical center operating funds. Thirty-five million will be raised privately with help from Ripken, who agreed to serve as honorary campaign chairman. Construction is expected to be completed by 2013.



A rendering of the Shock Trauma addition on Lombard Street

EVENTS Mallott, Kaper Inducted into Academy of Educational Excellence



Richard M. Susel, '66, Carolyn J. Pass, '66, James B. Kaper, PhD, David B. Mallott, MD, and SOM dean E. Albert Reece, MD, PhD, MBA

David B. Mallott, MD, and James B. Kaper, PhD, were inducted into Maryland's Academy of Educational Excellence in spring. The academy was established in 2008 by Carolyn J. Pass, '66, and Richard M. Susel, '66, to promote and reward superlative teaching. Mallott is an associate professor of psychiatry and since 1997 has served as associate dean for medical education. Kaper is professor and chair of the department of microbiology and immunology.

EVENTS Twaddell Awarded Firminger Prize

William S. Twaddell, MD, an assistant professor in the department of pathology, was awarded the 2010 Harlan I. Firminger Faculty Teaching Prize. The annual award recognizes a faculty member in the department for excellence in teaching. Twaddell's research interests include liver disease—primarily malignancies—as well as pancreatic and colorectal malignancies. The award was established two years ago by Wilson A. Heefner, '60. Firminger served as chair of the department of pathology from 1958 to 1967.



William S. Twaddell, MD, with 2009 award winner Olga B. Ioffe, MD, department chair Sanford A. Stass, MD, Patricia Heefner, and Wilson A. Heefner, '60

Vaginal Microbes Vary Among Healthy Women in Different Ethnic Groups

The delicate balance of microbes in the vagina can vary greatly among healthy women, according to a new study led by the University of Maryland School of Medicine Institute for Genome Sciences. Researchers hope further study will lead to personalized reproductive medicine for women, allowing doctors to tailor each woman's treatment and health maintenance strategies to her individual microbial make-up.

The study, published online the week of May 31 in the journal *Proceedings of the National Academy of Sciences*, used genomics-based technologies to examine the vaginal microbes in 400 women. The work, a collaboration between Maryland's institute and researchers at the University of Idaho, is the first in-depth, large-scale molecular characterization of vaginal microbial communities. The research is an example of an emerging field of genomics, the study of the human microbiome. The human microbiome refers to all of the microbes that live on and in the human body. Scientists believe these tiny organisms interact closely with the human genome and play a critical role in human health and disease. In the vagina, these communities of microbes play a critical role in maintaining and promoting a woman's health and in protecting her against disease. Vaginal microbes provide protection mainly by producing lactic acid to create an acidic environment that is hostile to certain harmful microbes or infection.

"The surprising finding here is that some women can be healthy while still harboring different communities of microbes," said **Jacques Ravel, PhD**, associate professor of microbiology and immunology and associate director of the institute. "Even microbes that were previously believed to be detrimental to a woman's health seem to be part of a normal ecosystem in some women, according to this study. Further research is needed to establish the function of these microbes and the communities in which they appear. Some of the seemingly beneficial microbial communities seem to be associated with a higher pH which is usually considered to be unhealthy."

If we could identify women as being at a high risk for developing bacterial vaginosis, we could develop preventive methods to lower the risk of infection.

"We've found we can actually group women by the type of microbes they have in the vagina," says Ravel. "The study shows that doctors should not assume every woman is the same. We may not need to personalize reproductive medicine down to the individual woman, but by which microbial group to which they belong. The information about each woman's vaginal microbial community could inform how doctors treat her for vaginal conditions. It could help drive the development of better treatments to reestablish vaginal health. Understanding these microbial communities could also help us determine which women might be at higher risk for infections."




Jacques Ravel, PhD

Yeast infections or bacterial vaginosis cause discomfort in patients and can have serious health effects. About 25 to 30 percent of women have bacterial vaginosis on any given day, and it

is the most common vaginal infection that causes women of reproductive age to visit their primary care physician. "If we could identify women as being at a high risk for developing bacterial vaginosis, we could develop preventive methods to lower the risk of infection," says Ravel.

The study involved vaginal samples taken from 400 women representing four ethnic groups equally: black, Hispanic, Asian and white. **Ligia Peralta, MD**, associate professor of pediatrics and microbiology and immunology, collaborated with clinicians at Emory University to collect the tissue samples. Ravel and his group at the institute worked with a co-investigator at the University of Idaho to use advanced genomics and bioinformatics technology to gather information on the microbes in the samples and analyze the data.

The researchers found five main groups of microbial communities, and the proportion of women in each community varied by ethnicity. They also found that microbial communities that may not offer women optimal protection were more common among Hispanic and black women than they were in Asian and white women. 

EVENTS Davidge Key Presented to MAA

Another precious Davidge Hall keepsake has come home. In May, Joseph W. Cavallaro, '55, presented the Medical Alumni Association with an original key to the front door of Davidge Hall.

The brass key is seven inches long and once unhinged a large bolt securing the two large wooden doors. The original lock, although no longer in use, was remounted during the 1980s renovation project under the direction of dean John M. Dennis, '45.

"There obviously wasn't a need for the key," Cavallaro recalled. "And it wasn't unusual back then for custodial staff to simply discard old keys; so I asked for it and the janitor gladly obliged."

Recognizing its historical significance, Cavallaro had the key framed and displayed at his home in Frankford, WVa. He decided to bring it along in spring for presentation to the MAA during his 55th medical school reunion.




Joseph W. Cavallaro, '55

EVENTS Second Generation Davidge Elms

It's been nearly a decade since the Davidge Elm was removed from Lombard Street, but now a second generation is sprouting up throughout the state of Maryland.

The effort began in December 2001 when the tree was taken down due to old age. Clippings were harvested and transported to a North Carolina nursery where they were carefully nurtured by Bartlett Tree Service. Last year they were deemed healthy for transplantation, and



alumni and friends were invited to obtain their piece of history with a portion of the proceeds benefitting Davidge Hall restoration efforts. The distribution began in March when the elms were transported back to Baltimore. Four were taken to Maryland's eastern shore and one was delivered to a local country club; the balance were planted at private residences. An English elm can grow as tall as 95 feet. 

Rick Taylor, '75, and wife Kathie beside their Davidge Elm

2010 CPC

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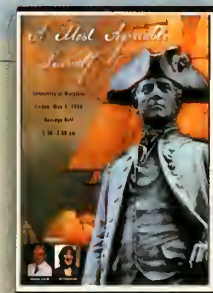
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2010
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2008
Akhenaten (\$18)



2009
John Paul Jones (\$18)

Vatican Supporting Stem Cell Initiative

M

edical school researchers are leading a new international research initiative, funded in part by the Vatican, to explore the therapeutic potential of intestinal stem cells. The International Intestinal Stem Cell Consortium includes scientists from Maryland's center for stem cell biology and regenerative medicine as well as several institutes in Italy. The Vatican and the Istituto Superiore di Sanita, the Italian equivalent to the National Institutes of Health, announced the

partnership at a news conference in Rome.

"This new coalition brings together scientists from both sides of the Atlantic to ensure we are exploring every avenue of stem cell research in order to bring real treatments as quickly as possible to patients suffering from deadly conditions such as Alzheimer's disease and multiple sclerosis," says **Alessio Fasano, MD**, professor of pediatrics, medicine and physiology and director of the mucosal biology research center and the center for celiac research at the medical school. "All of the partners have shown a tremendous amount of energy and enthusiasm into putting this consortium together, and we are thankful to the Vatican for making this research possible," adds Fasano, who is coordinating the consortium.

In addition to Maryland, the group includes researchers from the Istituto Superiore di Sanita, the University of Salerno in Fasano's hometown, and the Bambin Gesù in Rome, the largest children's hospital in Europe.

The ideal type of stem cells for medical use has unlimited pluripotency—virtual blank slates that can become any kind of cell. Embryonic stem cells and the newer induced pluripotent stem cells are prized for their pluripotency. Adult stem cells are not as pluripotent, but harvesting them from a patient's skin, muscle, bone marrow—and now intestines—may be an important alternative, according to Fasano.

Intestinal stem cells are highly active and support the shedding and replacing of all the cells in the lining once every four to seven days. They are multipotent, already programmed to generate all the various kinds of cells necessary to line the intestine, including mucus cells

and epithelial cells. And they can be harvested easily using endoscopy. As a result, patients could have their own intestinal cells harvested and used to treat bowel disease, reducing the risk of rejection or a reaction to the transplant.

"We just want to take advantage of what nature is already doing in the intestines," Fasano concludes. "To study this, though, takes multidisciplinary teams of experts in stem cell research, experts in gastrointestinal medicine, experts in molecular biology and bioengineering. We need all the pieces of the puzzle, and we need to communicate freely, sharing our ideas and findings. That is the intention of our consortium."


The group is working to answer two critical questions: how intestinal stem cells can be kept alive and made to replicate in the laboratory; and once healthy and flourishing, how they can be transformed into dif-



Prof. Garaci, director of the Istituto Superiore di Sanita, Prof. Bonanni, director of the Italian FDA, and Alessio Fasano, MD

ferent types of cells. If laboratory research goes well, the consortium could move forward with clinical research.

"I am confident that this partnership will facilitate new discoveries about intestinal stem cells that will lead to a better understanding of all types of stem cells, their function and potential to treat disease," says **Curt Civin, MD**, professor of pediatrics, director of the center for stem cell biology and regenerative medicine, and associate dean for research at Maryland.

"Our center is dedicated to pursuing every promising avenue of stem cell science using multidisciplinary research partnerships between our faculty and the construction of core facilities to support all types of stem cell research. We hope this new funding will help us reach our goals." 

Transitions




Hugh E. Mighty, '82, associate professor and chairman of the department of obstetrics, gynecology & reproductive sciences since 2000, was named vice chancellor for clinical affairs at Louisiana State University Health Science Center in Shreveport where he will also serve as professor of obstetrics and gynecology. An expert in maternal medical disorders and critical care medicine, Mighty held multiple leadership roles at Maryland including president of the medical staff and chair of the women's health collaborative. **Christopher Harman, MD**, is serving as interim chair of the department, and a national search is underway for Mighty's replacement.

Stephen B. Liggett, MD, was named associate dean for interdisciplinary research. Liggett is professor of medicine and physiology and is retaining the title of director of the cardiopulmonary genomics program. In his role as associate dean, Liggett is fostering scientific collaboration between faculty members from throughout the institution in order to develop a broad range of interdisciplinary basic science and translational research, which will both broaden institutional basic research and lead to clinical applications for those basic science discoveries.



BOOKS



Alignment
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Co-authors Morton I. Rapoport, '60, former CEO of UMMS, and Stephen Schimpff, MD, former CEO of UMMC, trace the growth of University of Maryland Hospital from its birth as a private, not-for-profit enterprise in 1984 to a thriving, nine-hospital system today.

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Neda H. Frayha, '06, in addition to recent appointments as assistant professor in internal medicine and associate program director for the internal medicine residency program, is spending 50 percent of her time in the office of student affairs. Frayha recently completed a year as chief resident at Maryland. In the office of student affairs she replaces **Gina Perez, MD**. 🏛️

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Medicine Bulletin Summer 2010

8



**He thinks he's just
slowing down with age.**

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Discovery Innovation

By Jim Swyers, MA

A snapshot of game-changing Maryland research initiatives

Research funding at Maryland continues to surge, paving the way for breakthrough discoveries and novel approaches to treating disease. Writer Jim Swyers provides updates on four such initiatives currently underway.

Unraveling Melanoma

Melanoma is the deadliest type of skin cancer, and the incidence of cutaneous melanoma is increasing faster than any other common cancer, with an approximate doubling of rates every 10 to 20 years in countries with Caucasian populations. Although melanoma is quite curable in its early stages, once it has metastasized it is extremely difficult to treat.

"Thankfully, most cases of melanoma are caught in the early stages," says Edward A. Sausville, MD, PhD, professor of medicine and associate director for clinical research at Maryland's Marlene & Stewart Greenebaum Cancer Center. "However, if undiagnosed and untreated, the tumor can spread downward into deeper skin layers and to lymph nodes and internal organs. Once that happens, patients' therapeutic options are very limited."

People diagnosed with stage IV melanoma have an average life expectancy of only six to nine months. However, this grim scenario may soon change for some advanced-stage melanoma patients if a clinical trial led by Sausville proves promising. The trial is in a small group of stage IV melanoma patients using a drug called pentamidine. It has previously been approved by the FDA for treating certain types of parasitic infections.

Sausville's main collaborator in the trial is David J. Weber, PhD, professor of biochemistry and molecular biology. Weber's laboratory previously discovered that pentamidine might be effective against melanoma cells using structural biology techniques.

"A few years ago, my laboratory demonstrated that a calcium-binding protein known as S100B, frequently found in high concentrations of melanoma cells, binds and inhibits the function of a well-known tumor suppressor protein, p53. We then hypothesized that if we could interfere with S100B's ability to bind to p53, we might be able to restore p53's normal function and return melanoma cells to their non-cancerous state," explains Weber.

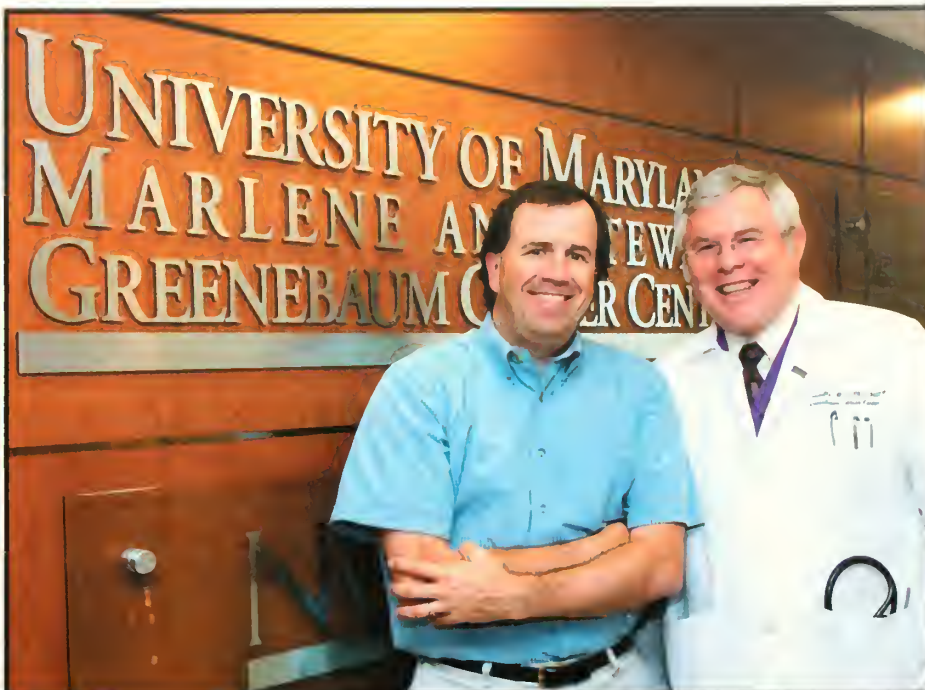
Armed with that knowledge as well as an atomic resolution three-dimensional structure of an S100B-p53 complex, Weber's laboratory began using nuclear magnetic resonance spectroscopy to screen already available chemicals that might be able to disrupt the ability of S100B to tightly bind to p53. After screening a number of candidates, they came upon pentamidine.

"Pentamidine was an extremely exciting candidate," explains Weber. "It is often used to treat infections in AIDS patients. Therefore, it has a demonstrated safety profile. We didn't want to use something that was effective in blocking the S100B-p53 interaction but was toxic to patients."

In subsequent studies, Weber's laboratory demonstrated that pentamidine was both highly effective in interfering with S100B's ability to bind to p53 in melanoma and was able to restore the normal tumor suppression activities of p53. He then contacted Sausville about collaborating on a grant to test pentamidine in a clinical trial for patients with advanced stage melanoma. The grant was funded by the National Cancer Institute late last year.

Sausville and Weber are currently enrolling approximately 16 stage IV melanoma patients for a phase II clinical trial. The only caveat is that the treatment is not for every patient who has melanoma. Patients enrolled in the trial must have the p53 biotype—that is, they must have S100B complexed with wild type p53. Although they are reluctant to predict the outcome of the trial, they suggest it has significant potential to be more effective than previously available therapies.

"Because we are selecting only those patients with a very specific biotype, this is a very personalized approach and is much more targeted therapy than any available to date," Sausville explains. 🏠



Above: David J. Weber, PhD, with Edward A. Sausville, MD, PhD

At left: The two sites where the drug pentamidine interferes with S100B's ability to bind to and inactivate the tumor suppressor protein p53 in melanoma cells



Understanding the Prion Theory

In 1982, UCSF researcher Stanley B. Prusiner published a paper in the journal *Science* suggesting that a protein-only particle, or "prion" as he dubbed it, could cause a neurodegenerative infection.

Specifically, Prusiner's theory held that a normal, or wild-type prion protein, which occurs naturally in all mammals as well as birds and fish, somehow becomes misfolded and has the ability to convert other normal prion proteins into this misfolded structure and cause Transmissible Spongiform Encephalopathies (TSE), a group of fatal diseases that, as they progress, riddle the brain with sponge-like holes.

Even though Prusiner received the prestigious Nobel Prize in 1997 for this work, the idea that a protein alone could be an infectious agent remained a contentious issue until just recently. Previously, only viruses and bacteria were believed to have the ability to cause such an infection.

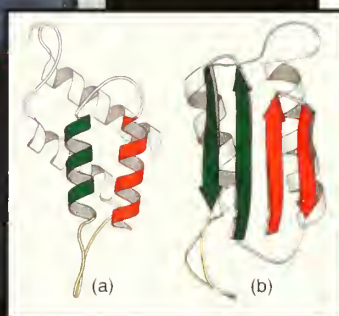
One of the most consistent skeptics of this prion theory was Robert G. Rohwer PhD, associate professor of neurology at Maryland and director of the molecular neurovirology

laboratory at VA Medical Research Service in Baltimore.

"I never really believed the hypothesis that you could have a huge spectrum of diseases that are caused by the malformation of a single protein," says Rohwer.



Above: Robert G. Rohwer, PhD, and Ilia V. Baskakov, PhD
At right: Normal (a) versus misfolded (b) prion capable of causing neurodegenerative disease



However, Rohwer is now a firm if still incredulous believer. The person to change his mind was Ilia V. Baskakov, PhD, who joined Maryland's biotechnology institute in 2001 from Prusiner's laboratory. Baskakov, associate professor and head of the program in prion diseases at the institute, had developed a novel method of making abnormal prions from wild-type ones.

Rohwer, who had spent 35 years searching for a viral cause for TSE diseases, attended a lecture given by Baskakov and says he was "immediately impressed" by his thoughtful approach to proving the prion hypothesis.

"I figured if anyone was going to succeed it was likely to be him," Rohwer says. "His laboratory was making recombinant prion proteins in bacteria, isolating them, and then utilizing various means to misfold them followed by rigorous biophysical and biochemical characterizations of the resulting structures. However, he had no way to test them for infectivity. I convinced him to let me put his various constructs into hamsters and see what happens. I also won him over to the idea that to prove the prion theory to skeptics like myself, he had to synthesize a wild-type prion

protein, fold it into its infectious form, and show that it would cause a TSE disease when inoculated into normal animals. The interpretation of prior work had been confounded by the use of mutant prion proteins and abnormal transgenic animals for assay," Rohwer explains.


Over several years they tested numerous constructs which resulted in long happy lives for the test animals. Then 500 days after inoculation, hamsters inoculated with one particular prion construct began to look "different" from the control animals. The experimental animals displayed a repeated startle response, characteristic of neurodegenerative disease, and their brains were riddled with amyloid plaques. Baskakov's prion construct also produced a prion disease in hamsters whose clinical course was in some ways more similar to that in human prion diseases than the prion diseases typically found in lab animals.

According to Rohwer, this experiment was convincing. "There was no other explanation other than that the synthetic misfolded prion protein was causing the disease and that the protein was both necessary and sufficient to cause disease," he says.

Although Baskakov is happy that the prion theory has finally been exonerated, he is even more thrilled about the prospects of using this technology and the new animal model to answer various questions about prion disease pathogenesis and, possibly, even intervene in its course.

"Now that we have an animal model," Baskakov explains, "we can address a number of quite puzzling issues, such as the mechanism that these misfolded prions use

In the long term, if we can understand the mechanism of action of prion propagation, it might be possible to design interventions or even protective vaccines against these terrible diseases.

to recruit normal prion proteins to their cause and which parts of the brain are targeted by a particular strain of prion. We also hope to understand the structural features of prions that are important to infectivity. Furthermore, in the long term, if we can understand the mechanism of action of prion propagation, it might be possible to design interventions or even protective vaccines against these terrible diseases," he says. 

Dr. Rohwer can be contacted at tr Rohwer@umaryland.edu and Dr. Baskakov at baskakov@umaryland.edu

Orchestrating Stem Cell Research

Stem cells, which have the ability under certain conditions to change, or differentiate, to any cell type, hold the promise of treating and even curing a myriad of debilitating and life-threatening human diseases, such as diabetes, stroke, and Parkinson's disease. Until recently, however, progress in bringing these potentially life-altering treatments to the clinic has been hampered not only by funding shortages but also because stem cell researchers worked in relative isolation and advances have largely come in fits and starts.

All that is about to change and in a big way, thanks to a \$30 million, seven-year grant awarded recently by the

This is an extremely forward-thinking and innovative project because it will allow these high-quality stem cell research programs to exchange information and ideas in real time rather than waiting until any publish papers or present data at conferences.

National Heart, Lung, and Blood Institute (NHLBI) to Maryland to serve as the administrative coordinating center for a consortium of the nation's most prominent stem cell research centers. The idea of the consortium, known as the NHLBI Progenitor Cell Biology Consortium, is to bring together the best and brightest stem cell researchers from around the country in cardiology, hematology, and pulmonary medicine, to jump start and accelerate cutting edge research in this exciting new field.

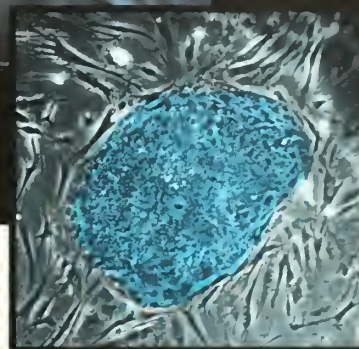
Michael L. Terrin, MD, CM, MPH, professor of epidemiology and preventive medicine, who was chosen to head the coordinating center for the consortium, says that this project has the potential to greatly accelerate the pace of stem cell research and, more importantly, the development of therapies based on stem cells.

"This is an extremely forward-thinking and innovative project because it will allow these high-quality stem cell research programs to exchange information and ideas in real time rather than waiting until any publish papers or present data at conferences. Thus, it will establish an extraordinarily robust level of communication and cooperation among these programs and ultimately accelerate the development of stem cell therapies in this country and elsewhere," he explains.

A majority of the \$30 million grant (\$24 million) will actually be distributed by the coordinating center to the various consortium partners for pilot and collaborative research projects. The remaining \$6 million will allow the coordinating center to provide capabilities for the consor-



Above: Michael L. Terrin, MD, CM, MPH
At right: A colony of human embryonic stem cells (center). These cells are capable of differentiating into any of the 220 types of cells in the human body.



tium members to communicate by voice, video conference and digital media, as well as have access 24-7 to highly secure computer facilities to work on their projects together. At the heart of the project is a website that will provide stem cell researchers with tools they need to be successful, including immediate access to databases, bioinformatics expertise, the ability to share strategies and biological samples, and even tools for publishing their results in scientific journals.

"From top to bottom, this project is about increasing and expanding the level of communication and collaboration among stem cell researchers around the nation. This one-stop website is designed to facilitate the ability of consortium members to communicate rapidly and easily among themselves and the outside world, while still protecting the security of their data," says Terrin.

Additionally, the website will use peer pressure to encourage collaboration among consortium members by sharing "metrics" showing which programs are doing the best job of collaborating and sharing information. This peer pressure will be reinforced by NHLBI itself, which may encourage consortium members who collaborate the most productively by increasing their funding. In other words, the more they collaborate the more funding they will be eligible to put to good use. This incentive will also spur individual programs to combine their data and start research in new areas and in ways that would previously have been impossible, explains Terrin.

Photo credit for stem cell image:
Clay Glenon, University of Wisconsin-Madison

Dr. Terrin can be contacted at mterrin@epi.umaryland.edu

"Programs that may have found it convenient in the past to keep their data to themselves will now find it more beneficial to share," says Terrin. "The result will be that stem cell researchers will advance on parallel tracks rather than sequentially as they have in the past. This is good for everyone involved in the field, but especially for patients who will benefit from the accelerated pace of therapeutic development." 🏛️

Revolutionary Trauma Therapies

Approximately 1.4 million people sustain a traumatic brain injury (TBI) each year in the United States, and at least 5.3 million have lifelong disabilities as a result of a TBI. As many as 300,000 Americans currently are living with a spinal cord injury (SCI). The cost of caring for these individuals with TBI and SCI is in the hundreds of billions of dollars each year.

When there is a significant injury to the brain or spinal cord, a lesion occurs at the initial site of injury. Cells in this lesion, often referred to as the "core" of the injury, undergo rapid loss of integrity and die. This sets off a cascade of events that leads to even more damage in surrounding tissue, resulting in a life-long, chronically degenerative condition. Traditionally, it has been assumed little can be

done to reverse either the short-term or longer-term damage caused by such trauma.

"Recent studies that we and others around the world have conducted suggest that there is much more we can do for these patients," says Alan I. Faden,

MD, the David S. Brown Professor in Trauma and director of the center for shock, trauma and anesthesiology research (STAR) & National Study Center for Shock and EMS.

People who study TBIs and SCIs have typically assumed there is nothing that could be done for the cells in the core of an injury and have instead focused on ways to prevent further damage to the cells immediately adjacent to the core.

"Our studies have determined that there is a type of programmed cell death, or apoptosis, which occurs in the core of a TBI or SCI within 24 to 72 hours of the initial injury," says Faden, a neurologist. "This type of cell death is regulated by a factor called apoptosis-inducing factor. We have utilized a drug strategy for stopping this process and, in animal studies, we have been able to reduce the size of the core of the lesion and produce a significant improvement in outcome. Therefore, we believe we may be able to treat or even prevent cell death in the lesion core of a brain or spinal cord injury patient if we can intervene as late as 24 hours or more after the initial injury," Faden explains.

In addition to intervening in the immediate aftermath of a TBI or SCI, Faden and his collaborators are working on ways to prevent the long-term sequence of events that occur after such an injury. Recently they identified a cluster of genes involved in inflammation that is switched on, or "upregulated," and reach maximum activity within one to two weeks after injury. These genes remain chronically upregulated thereafter.

One gene in particular is highly upregulated and seems to remain that way permanently after a TBI or SCI. Faden's laboratory has identified a novel drug strategy for inhibiting this gene. Furthermore, on animal studies, his group has shown that the drug regimen can protect the animals from the long-term consequences of such an injury long after the trauma.

"We gave animals with a TBI the drug regimen one month after their initial injury," Faden continues. "One month later, the lesions in the control group had continued to grow while the lesions in the treated animals had stopped growing. Imaging studies also showed that white matter was markedly degenerated in the control animals compared to the treated animals. Additionally, the drug-treated animals were significantly better off in terms of cognitive and motor abilities. So, we now believe it may be possible to treat a patient with a TBI or SCI even months after their initial injury and affect a significant improvement in their status by—at minimum—halting any further growth of their lesion and further degeneration of their brain or spinal cord," he says.

With wars in Afghanistan and Iraq, Faden says the incidence of TBIs and SCIs undoubtedly will increase in the near future. "Hopefully we soon may have effective treatments to offer limiting their long-term disabilities." 🏛️

Photos by Richard Lippenholz



Alan I. Faden, MD



Dr. Faden can be contacted at afaden@anes.umm.edu

An Extra Mile for the Extra Edge

Epidemiology and Preventive Health

By Rita M. Rooney

Photos by Richard Lippenholz

Webster's has short-changed epidemiology by a long-shot. The dictionary defines the science as a branch of medicine dealing with the incidence and prevalence of disease in large populations. Of course, that's true as far as it goes. A more finely tuned definition, however, might be that epidemiology is the engine that drives advances in public health.



t Maryland, the department of epidemiology and public health is supported by a 58-member faculty directing education and research in six divisions in which 12 degrees are awarded in master, PhD and dual-degree programs. A wide range of research initiatives earns \$15 million in direct research funding annually from the National Institutes of Health (NIH), the Center for Disease Control, Veteran's Administration, the Agency for Health Care Research Quality, and other funding organizations.

"We have a dual MPH degree program with every school on the Baltimore campus," reports chair, Jay Magaziner, PhD, MSHyg. "Our goal is to integrate public health within the professions, rather than training in the abstract. In essence, that charges us with developing a whole new model of public health training."

The faculty responsible for this ambitious undertaking is strengthened by diversity among their backgrounds, complexity of their research, and uniformity when it comes to achievement. They represent epidemiologists, physicians, biostatisticians, behavioral and social scientists. Their students are doctors, lawyers, nurses, pharmacists, dentists, and social workers. Not all started out to take on prevention or public health issues. Many made a deliberate switch at some point, going that extra mile for the additional edge that equips them to tackle the tough questions that inevitably precede and follow every medical dilemma and research discovery. For instance, beyond looking at bench research and clinical trials that determine what causes breast cancer and how to treat it, students in the department question why many women still get the disease, and why some don't get optimal treatment in spite of clinical practice guidelines.

Professor Mary-Claire Roghmann MD, MS, went from medical school to a residency in internal medicine to a fellowship in infectious diseases and then a master's degree in epidemiology.

"What I really enjoyed during my training was taking my course work in epidemiology while working on my first clinical research project," she says. "I think it's the same for many of our students."

Roghmann heads an NIH sponsored clinical research curriculum award. Called the K30 program, it parallels her own experience in that it is a curriculum that teaches health care professionals how to do clinical research. Initially, the program was focused on physicians interested in clinical and translational studies in academic settings.

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While the core group remains MDs, the master's program has expanded to include students from the schools of pharmacy, dentistry and nursing. It's designed to apply to any type of study the student chooses, as long as it employs the research methods learned through the program. An upcoming K30 initiative is one that will train PhD scientists in the translational process, with the intent that such understanding will encourage them to continue their research through to the next stage, enabling their discoveries to follow a seamless path toward improving human health.

Renee Royak-Schaler, PhD, MEd, associate professor and director of the master of public health program, says the program is an important one which received a five-year accreditation from the Council on Education for Public Health in July 2009.

"Recent attention to public health issues, a surge in volunteerism in the U.S. and overseas, and employment opportunities in the public health workforce have probably all contributed to the increased interest in and application to public health degree programs," she says.

She adds that what sets the MPH program at UMB apart from others is its granting of dual degrees across all professional schools, including masters of public health degrees in the schools of dentistry, law, medicine, nursing, social work and pharmacy. Classrooms facilitate multidisciplinary learning among the students, which is identified as a unique educational opportunity by those seeking the MPH degree. Students leave with methodological skills in one of two concentrations—epidemiology or community and population health. A new concentration in global health is under development.

Anthony Harris, MD, MPH, a professor who heads the division of health care outcomes research, reports that news accounts of hospital-related bloodstream infections have popularized a once "non-chic" interest, and that consequently, infections have become a priority concern among the public as well as by those in public health.

"We have an NIH grant studying risk factors for antibiotic-resistant bacteria among intensive care patients," he says. "We're trying to determine whether certain antibiotics are causing resistance or emergence, or whether



Renee Royak-Schaler, PhD, MEd

the infection is due to a patient's poor health, such as comorbid conditions and severity of illness, or patient-to-patient transmission via environmental factors within the hospital."

Another project that interests Harris' group revolves around an emerging bacterium, *acinetobacter baumannii*, a global infection additionally seen among returning military personnel. He says this project is funded by the NIH and partially studied by medical students, and that early stages of published findings are underway.

"One of our PhD students has been successful in working on a MRSA project, in which he made significant progress in changing the conventional thought process about the infection," Harris says. "The work undertaken

by this student has opened up new, more cost-effective ways to screen for MRSA among a specific group of patients, rather than screening every hospital patient."

He explains that, with regard to the antibiotic resistant gram negative bacteria, it was once felt that antibiotics were driving the emergence of MRSA more than transmission by the patient, and therefore, infection control wasn't a paramount concern.

"However, I think the body of research we've done has raised awareness of a complicated interplay between antibiotics and patient-to-patient transmission," Harris says. "That's a paradigm shift in many ways."

Roghmam adds that clinical and translational research allows a student interested in vaccine development to look first at the animal and human studies, then to the drug's initial safety evaluation and effectiveness. After this, the research becomes an integral part of the practice of implementation science, as students get to see how clinical and translational studies lead to the practice of medicine—and what needs to follow.

"It's at this point that those involved in the study of public health begin to look for appropriate ways to implement evidence-based recommendations," she says. "It may be through guidelines for clinical

Recent attention to public health issues, a surge in volunteerism in the U.S. and overseas, and employment opportunities in the public health workforce have probably all contributed to the increased interest in and application to public health degree programs.

practice published by professional societies, or ultimately through changes in public policy.”

A primary mission of the epidemiology department is the provision of educational programs that prepare physicians and other health professionals to provide care based on sound scientific evidence, specifically with regard to



Mary-Claire Roghmann, MD, MS

issues that have a big impact on patients' lives. As the first medical school in the country to teach preventive medicine in 1833, Maryland has taken that objective and directed it to activities embracing some of today's major health concerns. In every case, the classroom becomes a laboratory for students who conduct studies as they learn.

Patricia Langenberg, PhD, professor, vice chair for academic programs, and director of the epidemiology doctoral program, discusses an NIH career development award which she directs. Targeting those interested in the field

of women's health, the \$500,000 yearly NIH grant supports four faculty scholars who devote 75 percent of their efforts toward a research project. Recruited externally and from among UMB faculty, they tackle a variety of women's health issues during their two-year or longer appointments. Langenberg says issues have run the gamut from hormonal influences on mood disorders to HPV and cervical cancer, to effects of maternal diabetes on the embryo.

"These are important areas of concern," she says. "It's amazing to me that, until recently, there had been little research on the symptoms of menopause. We still don't know much about hot flashes and what causes them. But that's beginning to change."

Langenberg points out that, until about 12 years ago, most medical research operated on the theory that if existing knowledge about symptoms and vulnerability to certain diseases worked for men, they worked for women as well. She attributes the change to women in the U.S. Congress who began to demand funding for research on gender issues.

The women's health research group (WHRG), based in the department but extending to a multidisciplinary consortium throughout the Baltimore campus, is examining women's health concerns from the perspectives of medicine, law, pharmacy, nursing, dentistry and social work.

Lauren Levy, who coordinates the WHRG, reports that a series of symposia are directed to faculty members throughout the campus, and that speakers address concerns from career development to inconsistencies in research affecting men and women.

"Our goal is to provide information about the ways in which conventional research often has failed to consider the differential impact of gender on outcomes," she says. "We hope such awareness will foster an environment in which gender differences will become intrinsic to research efforts."

Department faculty also are engaged in training the next generation of scholars in gerontology through the gerontology doctoral program—one of only eight such programs in the country—which is funded by an NIH institutional training grant in the epidemiology of aging.

Gerontology doctoral program co-director, Denise Orwig, PhD, points out, "The interdisciplinary nature of the program provides a necessary foundation in preparing students for serving the diverse older adult population, which will increase over the coming decades."

Commenting on the quality of the student body represented by the department, Royak-Schaler reports admission criteria are heavily weighted.

"We look for students with credible reasons for seeking the degrees we offer," she says. "We examine their quantitative skills including grades and related experience. Our access to all the professional schools on the Baltimore campus enables the kind of multidisciplinary education that attracts top students."

We're training researchers who will span an entire health issue from bench to bedside to community, and back again. They are the ones who will evaluate research, who will question whether a specific study has had an impact on people, and whether we can say we're making a difference.

Her observations on the high education standards within the department are reflected by Magaziner, who agrees that a superior student body is critical to the department's mission.

"We're training researchers who will span an entire health issue from bench to bedside to community, and back again," he says. "They are the ones who will evaluate research, who will question whether a specific study has had an impact on people, and whether we can say we're making a difference."

There is no question Magaziner himself has made a difference in the department he leads and in a larger perspective as well. His gerontology studies are highly regarded throughout the country, and his work on hip fractures places him among the top authorities on the subject nationally. One of his colleagues refers to the reputation he commands at the NIH, saying that Magaziner is one of a few researchers the NIH has selected to receive two MERIT awards—a personal distinction that provides support to key investigators whose productivity and excellence in research are likely to continue in the future. The award is intended to foster long-term expansion of a research program.

"Most of our gerontology studies target secondary and tertiary prevention," Magaziner says. "We're interested in the management of conditions after symptoms appear or the patient first presents for treatment. The end goal is to maximize how people recover from skeletal hip fractures and other disabling conditions."

Other gerontology research in the department includes studies relative to new technology in the management of diabetes, specifically evaluating the effectiveness of telehealth technology that monitors blood glucose levels, and provides feedback on appropriate management to patients. Scientists in the department also have authored a considerable amount of work on cognitive problems among older adults, and new work on trauma and emergency medicine in older persons.

Applauding the contributions of students, Magaziner says research conducted by one former student determined that the cause of death following hip fracture is substantially different in men and women. While men account for

only 25 percent of all hip fractures, death from infection is substantially higher in men than in women.

Orwig, who is associate director of the Baltimore hip studies program, explains the depth of the research and its importance in targeting a critical health issue for men.

"The unique aspect of our current research is that we are recruiting 200 men and 200 women for comparison within a network of 25 hospitals in the area, giving us one of the largest networks of recruitment sites in the world" she says. "We already have shown some small differences between men and women suffering hip fractures, and we have reason to anticipate that the incidence of these fractures among men will increase significantly over the next several years."

She believes that, because men are living longer and experiencing osteoporosis in greater numbers, it is projected that by 2040 they will suffer hip fractures as frequently as women do today.

"Our research is exciting in that it is a fast-forwarding focus on a significant health problem as its incidence increases," she says. "We are looking at a broad series of assessments from physical functioning to cognitive issues, and we're following these patients for a year after their fracture."

One of the more unique courses in the department is a tribute to the creativity and resourcefulness of a highly innovative faculty. Langenberg explains that the required course for MS and PhD students includes the participation of five faculty members. Conducted through the graduate program in life sciences, it is taught by department faculty members who present a dataset and research questions that have not yet been researched in that dataset. The concept is that the student will have a publishable paper at the conclusion of the course.

"This is a wonderful preparation for a student's dissertation," Langenberg says. "They start with a question, they check the literature, refine it and create a hypothesis. They question some more, make presentations to the class, do complex analysis, do all that needs to be done before writing a paper and presenting the results. Many wind up publishing their paper."

Magaziner believes that understanding of the value of public health research and training is increasing and that the future for epidemiology programs is favorable.

"The NIH is looking more and more as to how its funding down through the years can be applied to larger and more diverse groups of people," he says. "What that amounts to is a mindset that is concerned not only in developing studies focused on which interventions work, and on strategies to deliver them to select groups of people—but research that determines how well those interventions affect the health of the public." 🏠

Appointments to National Organizations

Toby Chai, MD, has been appointed to a four-year term as a senior editorial consultant for the American Board of Urology Examination Committee. He will be helping construct the written exams that are given by the board.



Ziv Haskal, MD

Ziv Haskal, MD, professor, departments of diagnostic radiology & nuclear medicine and surgery, has been named editor of *The Journal of Vascular and Interventional Radiology*, published by the Society of Interventional

Radiology. His five-year term begins in January 2011. The monthly, peer-reviewed scientific journal—published since 1989—focuses on the critical and cutting-edge medical, minimally invasive, radiological, pathological and socioeconomic issues of importance to vascular and interventional radiologists.

Geoffrey Rosenthal, MD, professor, department of pediatrics, who has been a member of the Food and Drug Administration Pediatric Advisory Committee (PAC) since July 2007, is chair of the PAC for a two-year term ending June 30, 2011. Recognized for his



Geoffrey Rosenthal, MD

fair and thoughtful perspective during committee deliberations and his expertise in many sectors across the complex arena of pediatric health, including cardiology, general medicine and devices, Rosenthal's appointment will be critical as the committee extends its scope beyond drugs to encompass biologics and devices.



William Stanley, PhD

William Stanley, PhD, professor, department of medicine, has been appointed editor of the *American Journal of Physiology: Heart and Circulatory Physiology* (AJP). His term begins January

of 2011 and runs through December 2016. The AJP publishes original investigations on the physiology of the heart, blood vessels, and lymphatics, including experimental and theoretical studies of cardiovascular function at all levels of organization ranging from the intact animal to the cellular, sub-cellular, and molecular levels. *The American Journal of Physiology* has been published since 1898, and is one of the largest cardiovascular research journals in the world.

Awards & Honors

Claire Fraser-Liggett, PhD, professor, departments of medicine and microbiology & immunology and director, institute for genome sciences, was inducted into the 2010 Maryland Women's Hall of Fame in March. Fraser-Liggett was one of six women selected for this award, which recognizes Maryland women who have made outstanding contributions to the state and are visible models for future female leaders.



Claire Fraser-Liggett, PhD



Joseph Martinez, '98

David Jerrard, MD, associate professor, and **Joseph Martinez, '98**, assistant professor, both from the department of emergency medicine, were named "Top Reviewers for 2009" by *The Journal of*

Emergency Medicine. Jerrard is editor of the journal's clinical laboratory section, while Martinez edits the clinical reviews section.

Edward Weinman, MD, professor, department of medicine, is the 2010 recipient of the William S. Middleton Award. Weinman and his research associates isolated and cloned a protein called the Sodium-Hydrogen Exchanger Regulatory Factor or NHERF. NHERF-1,

the first member of this family, regulates the assembly of other proteins and is important in the movement of minerals and electrolytes across cells, and the function and signaling of a number of hormones. Mutations

in the NHERF-1 gene have been identified in patients with kidney stones and in estrogen-receptor-positive breast cancer and may also be involved in psoriasis, schizophrenia and some forms of deafness. The Middleton Award is the highest honor awarded annually by the Biomedical Laboratory Research and Development Service to Veterans Administration biomedical research scientists in recognition of outstanding scientific contributions and achievements in the areas of biomedical and bio-behavioral research relevant to the health-care of veterans. It was established in 1960 to honor Middleton, an educator and physician-scientist who served as the VA's chief medical director from 1955 to 1963. Recipients receive a cash award of \$5,000 and an inscribed plaque, as well as \$50,000 per year for 3 years in additional research support. The award was presented to Weinman in April by Undersecretary for Health, Dr. Robert A. Petzel, at a ceremony in Washington, DC.



Edward Weinman, MD

Events, Lectures & Workshops



Bryan Ambro, MD, MS

Bryan Ambro, MD, MS, assistant professor; **Jeffrey Wolf, MD**, associate professor, and **Herman Goldsztein, MD**, PGY-4 resident, all from the department of otorhinolaryngology—head & neck surgery, recently

returned from a surgical mission to Cambodia that was sponsored by the American Academy



Jeffrey Wolf, MD

of Facial Plastic and Reconstructive Surgery Face to Face International Humanitarian Program. Ambro's focus was to surgically reconstruct external ears of children and adults with congenital or traumatic deformities.

Wolf provided much-needed surgical treatment of large head and neck tumors. The doctors plan on making this an annual mission, intended to help patients as well as educate and train their Cambodian surgical colleagues there.



Wilbur Chen, MD

Wilbur Chen, MD, assistant professor, department of medicine and center for vaccine development, presented "Overview of U.S. Pandemic H1N1 Vaccine Development" at the Taiwan Centers for Disease

Control, and "Hypersusceptibility to Lethal Bacterial Pneumonia Post-Influenza Recovery" at the XII International Symposium on Respiratory Virus Infections in Taipei, Taiwan, in March.

Steven Czinn, MD, professor and chair; along with **Maureen Black, PhD**, professor; **Debra Counts, MD**, associate professor; **Virginia Keane, MD**, associate professor; and **Alessio Fasano, MD**, professor, all from the department of pediatrics, and **Yvette Rooks, MD**, assistant professor, department of family & community medicine, had the opportunity to attend a special event



Steven Czinn, MD



Maureen Black, PhD



Alessio Fasano, MD

featuring First Lady Michelle Obama at the Newseum in Washington, DC on March 17. The First Lady has begun a nationwide campaign called "Let's Move," with the goal of solving the problem of obesity among this generation's children. The event was sponsored by *Newsweek* magazine. Czinn spoke with Claudia Kalb, senior writer for *Newsweek*, who covers health and medicine. She is writing stories about obesity-related outreach programs in various cities, and the two discussed programs in our pediatrics department that tackle this problem in Baltimore.

Claire Fraser-Liggett, PhD, professor, departments of medicine and microbiology & immunology and director, institute for genome sciences, was invited to present "The human gut microbiome and obesity in the Old Order Amish," at the 2010 MetaHit—International Conference on Human Metagenomics in Shenzhen, China, in March. Also invited to speak at the conference was **Jacques Ravel, PhD**, associate professor, department of microbiology & immunology and institute for genome sciences, who presented "The Temporal Dynamics of the Human Vaginal Microbiota." **Jennifer Russo Wortman, MS**, assistant professor, department of medicine, and associate director of bioinformatics, institute for genome sciences, presented "A Data Analysis and Coordination Center for the Human Microbiome Project," at the conference.

Anthony Gaspari, MD, the Albert Shapiro, MD, professor and chair, department of dermatology, was featured on the February 1 episode of *The Dr. Oz Show*. Gaspari discussed his continuing treatment of Dede, the Indonesian "tree man."

Sharon Henry, '85, associate professor, department of surgery, participated in the American College of Surgeons Distinguished



Anthony Gaspari, MD

Visiting Surgeon in Combat Care Program. Her duties included providing surgical care for wounded U.S. soldiers, Marines and airmen, and teaching U.S. military medical personnel at Landstuhl Regional Medical Center in Ramstein, Germany.

Julie Dunning Hotopp, PhD

assistant professor, department of microbiology & immunology and institute for genome sciences, was invited to present "Gene Transfer from Bacteria to Eukaryotes" at the European Cooperation in Science and Technology Workshop on Arthropod Symbiont Genomics and Metagenomics, held in January in Madeira, Portugal.



Julie Dunning Hotopp, PhD



Thomas Scalea, MD

Thomas Scalea, MD, Francis X. Kelly Professor of Trauma Surgery, department of surgery, and director, program in trauma, presented "Damage Control Orthopaedics: What is it and Why is it important?"; also "Difficult Case Management"; and "Where Does Operative Control of Pelvic Fracture Bleeding Fit In?" at the point counterpoint conference in Doha, Qatar. Scalea also presented "Timing of Fracture Fixation in Patients with Multiple Trauma" at the trauma update entitled "Damage Control Strategy in Trauma," in Milano-Malpensa, Italy.

Terez Shea-Donohue, PhD, professor, department of medicine, presented "Im-



Terez Shea-Donohue, PhD

mune Regulation of Intestinal Epithelial Cell Function" at the USA/Ireland Functional Foods Conference in Cork City, Ireland in March.

Lisa Shulman, MD, professor, department of

neurology, was quoted in a March 31 *New York Times* article on the phenomena of Parkinson's patients unable to walk because of their disease, yet are somehow able to ride a bicycle with perfect coordination.



Scott Strome, MD



David Eisenman, MD

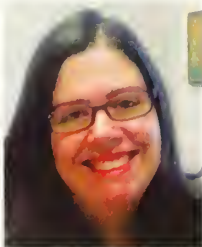
Scott Strome, MD, professor and chair, and **David Eisenman, MD**, associate professor and vice-chairman, department of otorhinolaryngology—head & neck surgery were invited lecturers at the annual meeting of the Israeli Society of Otolaryngology—Head & Neck Surgery in Eilat, Israel. Strome presented "Targeted Monoclonal Antibody Therapy for Head & Neck Squamous Cell Carcinoma: Current Challenges and Future Directions,"

while Eisenman spoke on "Pulsatile Tinnitus: Evaluation and Management."

Rodney Taylor MD, MSPH, FACS and **Jeffrey Wolf, MD**, both associate professors, department of otorhinolaryngology—Head & Neck Surgery, were invited to lecture at the Ben Gurion University of the Negev, Beersheva, Israel, on "Surgical Management of Obstructive Sleep Apnea."



Rodney Taylor MD, MSPH, FACS



Jennifer Russo Wortman, MS

Jennifer Russo Wortman, MS, assistant professor, department of medicine, and associate director of bioinformatics, institute for genome sciences,

presented "Aspergillus Genome Database Comparative Genomics and Visualization Tools," at the 10th European Conference on Fungal Genetics in The Netherlands, in March.

Book/Textbook Publications



Marc Hochberg, MD, MPH

Marc Hochberg, MD, MPH, professor, department of medicine, is lead editor of the textbook *Rheumatoid Arthritis* which received a stellar review in the November 4, 2009 issue of JAMA. The book was also awarded first prize under the category rheumatology and orthopaedic textbooks published in 2009 by the *British Medical Journal*.



John Kastor, MD

John Kastor, MD, professor and former chairman, department of medicine, published *The National Institutes of Health. 1981–2008* (Oxford University Press).

E. Albert Reece, MD, PhD, MBA, acting president of the University of Maryland, Baltimore, and dean of the medical school, co-authored with Robert L. Barbieri a textbook entitled *Obstetrics and Gynecology: The Essentials of Clinical Care*, (Thieme Publishing Group).

Grants & Contracts*

George Lewis, PhD professor, institute of human virology and department of microbiol-



George Lewis, PhD

ogy & immunology, received a five-year \$2,955,849 grant from NIAID for his work entitled "Broadly Neutralizing Monoclonal Antibodies Against HIV-1." The goal is to identify novel monoclonal antibodies that broadly recognize the HIV-1 envelope glycoprotein (Env) and block infection *in vitro* to guide vaccine development.



Mandeep Mehra, MBBS

for a project entitled "Docosahexaenoic Acid for Treatment of Heart Failure."

Andrea Meredith, PhD, assistant professor, department of physiology, received a five-year, \$1,875,000 grant from the NIH National Heart, Lung and Blood Institute to support her research proposal entitled "Daily Regulation of Ionic Currents."



Andrea Meredith, PhD

James Nataro MD/PhD, '87, MBA, professor, department of pediatrics and center for vaccine development, received a two-year \$1,099,740 grant through the enteric vaccine initiative of the Program for Appropriate Technology in Health (PATH) entitled "A Toxoid Vaccine



James Nataro MD/PhD, '87, MBA

Against Heat-Stable Enterotoxin of *E. coli*." The overall goal of this project is the development of a conjugate ST toxoid vaccine candidate against enterotoxigenic *E. coli*, the major cause of traveler's diarrhea and of bacterial watery diarrhea among children in developing countries.



Christopher Plowe, MD, MPH

Christopher Plowe, MD, MPH, professor, department of medicine and center for vaccine development, received a three-year \$1.5 million contract from USAID for his work entitled "Molecular Surveillance of Drug Resistant Malaria in the Greater Mekong Subregion." The contract has a two-year option period for an additional \$1 million. Additionally, Plowe received a five-year \$970,000 grant from the University of Oxford, funded by Bill and Melinda Gates Foundation, to oversee the Molecular Module of the Worldwide Anti-Malarial Drug Resistance Network, whose purpose is to develop and manage a global database to validate new research tools for efficacious use of anti-malarial drugs.



Jean-Pierre Raufman MD

Jean-Pierre Raufman MD, professor, department of medicine, received a five-year T32 Training Grant Competitive Renewal in the amount of \$1,848,308 as program director for research training in gastroenterology.



Mark Rogers, PT, PhD

Mark Rogers, PT, PhD, professor and acting chair, department of physical therapy & rehabilitation science, has been awarded a two-year \$1,156,662 National Institute on

Aging R01 grant to study "Lateral Stability and Falls in Aging." This is the first R01 grant ever awarded to the department



Lisa Shulman, MD

Lisa Shulman, MD, professor, department of neurology, has been awarded a four-year, \$2,625,592 grant from NIH to create a research site for the Patient-Reported Outcomes Measurement Information System Project. The grant will be used to develop a new measure of self-efficacy for self-management of chronic disease and to perform validation studies of this new measure in five chronic neurologic disorders (epilepsy, multiple sclerosis, Parkinson's disease, peripheral neuropathy, and stroke) at the University of Maryland Neurology Ambulatory Center.

Hervé Tettelin, PhD, associate professor, department of microbiology & immunology and institute for genome sciences, is the principal investigator on a two-year, \$1,504,050 project entitled "Comparative Genomic Analyses of Streptococcus Pneumonia: Emergence of Multidrug Resistant and Vaccine Replacement Serotypes." Tettelin's project is part of the "Genome Sequencing Centers for Infectious Diseases," a major federal contract under the overall direction of **Claire Fraser-Liggett, PhD**



Hervé Tettelin, PhD



Stefanie Vogel, PhD

Stefanie Vogel, PhD, professor, department of microbiology & immunology, was awarded a five-year, competing renewal award totaling \$3.7 million on an NIH R37 grant en-

titled "Differentiative Signals for Macrophage Activation."

Owen White, PhD, professor, department of epidemiology & preventive medicine and institute for genome sciences (IGS) and co-investigators **Jacques Ravel, PhD**, associate professor, department of microbiology & immunology,



Owen White, PhD

Anup Mahurkar, director of software engineering, and **Samuel Angiuoli**, bioinformatics software manager, received a three-year, ARRA, \$1,894,381



Jacques Ravel, PhD

grant for a project entitled, "MRI-R2: Acquisition of Data Intensive Academic Grid (DIAG)." The DIAG project will serve as a resource for investigators and will include a computational infrastructure, a high-performance storage network, and optimized data sets generated by mining the data from public data repositories.



W. Gil Wier, PhD

W. Gil Wier, PhD, professor, department of physiology, was awarded a four-year, \$1,491,000 grant from the NIH National Heart, Lung and Blood Institute. The grant supports his research proposal entitled "Physiological Regulation of MLCK in Intact Arteries."

This study utilizes novel in vivo imaging of transgenic mice to study mechanisms of hypertension.

Message from the MAA President

2010-11 Medical Alumni Board

Otha Myles, '98
President

Tamara Burgunder, '00
President-Elect

Nelson H. Goldberg, '73
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Joseph M. Herman, '00

Michael K. McEvoy, '83

Gary D. Plotnick, '66

Maurice N. Reid, '99

Jerome Ross, '60

Lurette Semmes, '84

Elizabeth Tso, '79

Directors

Did we take your picture?

Photograph from the
2010 Medical Alumni
Reunion are available on
the MAA website [www.
medicalalumni.org](http://www.medicalalumni.org). Please
contact our website to copy
your favorites.



Practicing physicians remain on the cutting edge of scientific advancement by attending continuing medical education courses, reading publications, and attending grand rounds and seminars. It is my pleasure to report that our Medical Alumni Association is exploring another tool to keep up-to-date: viewing medical school lectures through the world-wide web. Whether it has been one year or 71 years since graduation, we believe alumni will appreciate access to these classes taught by our world-class faculty.

It is our hope to have as many as 50 lectures on line and available to dues-paying members of the MAA by late 2010. Most of these lectures were presented during the past year to first- and second-year students in Taylor Lecture Hall of the Bressler Research Laboratory. Many of them explore subjects involving advances in understanding the human genome and other discoveries that have occurred since completing our medical school educations. Also included in the package for your enjoyment will be historical pieces featuring the late Theodore E. Woodward, '38, former chairman of the department of medicine.

So, in addition to receiving four issues of the alumni *Medicine Bulletin* magazine and enjoying a wide-range of services, your \$85 membership will include this priceless offering. Once your dues are tendered, registration will take just a couple of minutes on our website, www.medicalalumni.org.

It is an honor and a pleasure to serve as your president this year, representing more than 7,500 living alumni of the University of Maryland School of Medicine. Please join us in our work for this great medical school.

Otha Myles, '98, completed an internal medicine residency and fellowship training in infectious diseases at the Walter Reed Army Medical Center in Washington, D.C.. He worked in the U.S. Army as an infectious disease physician/investigator in the U.S. Military HIV Research Program/Walter Reed Army Institute of Research until 2009. Myles recently returned to Maryland as an assistant professor in the department of medicine. He has been serving on the alumni board since 2003.



Otha Myles, '98

11th President
Medical Alumni Association

The Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues covering basic services are waived for emeritus members (graduated more than 50 years or have reached 70 years of age). Recently graduated alumni in training pay \$25. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Medicine Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum. These expenses are partially offset by the Passen Family MAA Endowment Fund.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—and unrestricted support to the dean.

The 135th Recognition Luncheon



Elijah Saunders, '60, Selvin Passen, '60, and members of the golden anniversary class of 1960 were the guests of honor at the MAA Recognition Luncheon on April 30 at the Southern Management Corporation Campus Center. Saunders was recipient of the 2010 MAA Honor Award & Gold Key, awarded for outstanding contributions to medicine and distinguished service to mankind. Passen received the 2010 MAA Distinguished Service Award, presented for contributions to the medical school and alumni association. There were three additional honorees this year: Allen R. Myers, '60, Bernice Sigman, '60, and Morton I. Rapoport, '60. They received the University of Maryland School of Medicine Alumni Leadership Award, presented to graduates who distinguish themselves in their chosen profession. Myers is the former dean at Temple University; Sigman for 20 years served as associate dean for student affairs at Maryland; and Rapoport was named CEO of the University of Maryland Medical System in 1982, a post he held until retirement in 2003. During the luncheon, which also served as the annual business meeting of the Medical Alumni Association, Otha Myles, '98, was elected 136th president.



Counter-clockwise from top: Selvin Passen, '60, recipient of the 2010 MAA Distinguished Service Award; Elijah Saunders, '60, receives the 2010 MAA Honor Award & Gold key from MAA president Martin I. Passen, '90. Some of the more than 30 surviving members of the class of 1960 at the luncheon: Sylvia Patterson, husband Ted, '62, and Wendy Paul, '95 SOM dean E. Albert Reece, MD, MBA, PhD, with award recipients Allen R. Myers, '60, Bernice Sigman, '60, and Morton I. Rapoport, '60

17th Historical Clinicopathological Conference

Bolivar Died from Arsenic Poisoning



Paul G. Auwaerter, MD, MBA, FACP

It was arsenic and not tuberculosis that killed Simon Bolivar, one of South America's greatest military figures. This was the conclusion of Paul G. Auwaerter, MD, MBA, FACP, clinical discussant at Maryland's historical clinicopathological conference on April 30.

Born in Caracas, Venezuela, in 1783, Bolivar died of a mysterious illness at age 47. The common belief until now is that he died of consumption, a common condition of the day, after suffering a long illness with a variety of symptoms. These included frequent bouts of losing consciousness, skin darkening, weight loss, coughing, exhaustion, and persistent headaches.

In carefully reviewing the case, Auwaerter concluded that most of Bolivar's symptoms point to a slow, chronic poisoning—the kind that results from drinking contaminated water.

"He spent a lot of time in Peru," stated Auwaerter, associate professor and clinical director in the division of infectious diseases at Johns Hopkins University School of Medicine. "And there have been Columbian mummies found there that have tested positive for high levels of arsenic."


It is also believed that doctors were treating Bolivar with arsenic as a treatment for some of his illnesses.

According to Auwaerter, there were no reports of Bolivar coughing up blood, and a green fluid later found around his heart suggests a bacterial infection. There were also reports of a tumor in his lungs that caused him to be severely hoarse. Auwaerter's conclusion: chronic arsenic intoxication complicated by bronchiectasis and lung cancer.

The diagnosis was embraced, at least in part, by Venezuelan president Hugo Chavez. In a televised speech to his country after the announcement of Auwaerter's findings, Chavez restated his belief that it wasn't tuberculosis that killed the general but something more sinister: "I don't know if we'll be able to prove it, but I think they assassinated Bolivar," he said.

Two representatives of the Venezuelan embassy were dispatched to the event, including an individual serving on the presidential commission formally investigating the death.

John Dove, MBBS, LRCP, FRCS, MSc, a retired orthopaedic spine surgeon and Bolivar scholar from Acharacle, Scotland, agreed that Bolivar had his share of enemies and had avoided a few assassination attempts. Dove was invited to present a historical perspective.

The conference serves as the centerpiece for the Medical Alumni Association's annual reunion. 

Venezuelan president Hugo Chavez restated his belief that it wasn't tuberculosis that killed the general but something more sinister: "I don't know if we'll be able to prove it, but I think they assassinated Bolivar."



John Dove, MBBS, LRCP, FRCS, MSc



By Wayne Millan

Simon Bolivar: More of a Caesar than a Washington?

El Libertador:

The Liberator. He is still known that way today across his native continent of South America two centuries after his military and political career. One of the nation states that he liberated from Spanish colonialism—Bolivia—bears his surname, as does the currency of his home country, The Bolivarian Republic of Venezuela. Heroic statues and busts of him adorn cities in the United States, much of Europe, and even some Asian capitals. Most often portrayed on horseback, Simon Bolivar is seen as the man who will come riding to free the masses and grant them a form of self-government. He is frequently compared to other revolutionaries, military and political leaders who left permanent marks: Napoleon, Alexander, and Washington. His legacy endures in the nations of South America, whose very existence as independent states depended on his peculiar strengths. Yet are such grand comparisons justified?

His full name was Simon Jose Antonio de la Santissima Trinidad Bolivar Palacios y Blanco, and he was born in July 1783, just months after the conclusion of the United States' war of independence. Bolivar's family had been in Venezuela since the 16th century and owned sugar and cacao plantations, copper mines, and hundreds of slaves. The Bolivars and their kin held high offices, and they lived at the top of the Criollo elite, i.e., the ruling class who were ethnically Spanish but born and raised in the colonies of Spain's vast American empire. Bolivar's parents died young; the future Liberator was an orphan before the age of 10. Because his father had been among the richest men in Caracas, however, the young Bolivar had extensive opportunities for travel and education. His schooling was along the lines of the pre-industrial era, when privileged pupils arrived on their own time at small schools run by tutors who were sometimes paid directly by their pupils. As an adolescent he already showed a proud streak of independence. According to his older sister, Simon would "wander the streets of Caracas, on foot and on horseback, associating with boys not of his own class."

Bolivar spent time training with a local military unit before departing for Europe at age 16. There he continued

his education, if rather casually; but he would always be an enthusiastic reader. According to close associates in adult life, whenever he could recline in his hammock he would always have a book in his hands.

While in Spain, and only just turned 18, Bolivar met and married an aristocratic woman a few years his senior, Maria Teresa Rodriguez del Toro y Alaysa. They returned together to Venezuela, but there she died (probably of yellow fever) within a year. Simon himself was not even age 20, and he vowed never to remarry. He kept the vow.

"Without the death of my wife, I would not have made my second journey to Europe, and it is probable that the ideas I acquired would not have taken root...the death of my wife early propelled me on the road to politics," he had written.

He was said to be "desolate" at this time, but his eventual response was to cross the Atlantic once more and go further with his education. He conducted a version of the Grand Tour—again made possible by considerable inherited wealth. While visiting Italy in 1805, he showed his developing ideology by swearing an oath to the ideals of liberty within sight of the ancient Roman Forum. He then visited the United States during the presidential term of Thomas Jefferson and saw, as he later wrote, "for the first time in my life...rational liberty at first hand." But he did not regard the Federal model of the U.S. Constitution as practical in the society of Spanish America: his own people would always need a strong military figure to lead them. This was a principal to which, like his vow never to remarry, he would definitely hold.

Spain was an illusory imperial power by the end of the 18th century, and after forces of Napoleon took control over the Iberian peninsula in 1808, rebel leaders across South America began to spark movements to free themselves. Initial success came to the "patriots" of Venezuela by 1811, and the young Bolivar, now back at home, was among their leaders. A royalist backlash ensued, however, and eventually Bolivar fled to the Caribbean and spent the better part of two years in exile—much of it in Haiti, where he gained material support from freed slaves. After his return to Venezuela in 1817, he would embark on a decade-long series of struggles that resulted in the com-

plete defeat of Spain. Not only did his home country gain independence, but so too did Colombia, Ecuador, Peru, and Bolivia, all due at least in part to Simon Bolivar's skill and determination.

Imbued with a strong sense of *noblesse oblige*—made easier perhaps by the early death of his parents and his own childless state—Bolivar viewed his personal ambition in light of service to every class of society. He was clearly anti-slavery in a way that Jefferson was not, and he offered freedom to any slaves who were willing to join his army of liberation. Yet he was formally named dictator of Peru in 1824 and attempted to create a presidency-for-life in Bolivia. He believed that the people around him would continue to need a ruler with an iron hand. He was in such a frame of mind that, in 1828, he was even able to presume for himself the title of dictator over much of the territory he had helped to free, known then as *Gran Colombia*. At similar times in his career, George Washington had behaved very differently, giving up his command of the Continental Army in 1783 (the year of Bolivar's birth), and later departing at his own volition the powerful new presidency of the United States in 1797. Whatever his personal motivations, Washington set an example of temperance in the use of power that would never be easy for future leaders to follow.

Bolivar, faced with internal dissent in the aftermath of his extensive victories, tried to force himself onto the new nations of South America and instead was ostracized. Within a month of his declaration of dictatorial powers—in September 1828—there was a conspiracy to assassinate him. The conspirators may have included his own right-hand man and vice president, Francisco Santander, and without the intervention of Bolivar's longtime mistress Manuela Saenz they could well have succeeded. Soon Bolivar had resigned all offices, left Venezuela for good, and made plans to return to Europe. But his health increasingly deteriorated, and he died at Santa Marta, Colombia, in December 1830. He was just 47 years old, and, like George Washington, he left no direct descendants.

To be fair, Bolivar faced a set of challenges that Washington did not: a society larger, more diverse, and even more hide-bound with traditional rules of class and caste than was true in the 13 colonies of British North America. Bolivar's world was closer to that of the ancient Mediterranean. Indeed, a closer personal comparison may be to the life and career of Julius Caesar. Like Bolivar, Caesar was a member of his nation's elite who nonetheless identified himself with a "popular" party. After some initial setbacks, he achieved a decade-long series of military successes and was eventually declared dictator (albeit a formal office

To be fair, Bolivar faced a set of challenges that Washington did not: a society larger, more diverse, and even more hide-bound with traditional rules of class and caste than was true in the 13 colonies of British North America... Indeed, a closer personal comparison may be to the life and career of Julius Caesar.

with legal precedent in ancient Rome). Caesar then gained some political successes, such as his reform of the calendar; but the envy he engendered within the Roman elite was so strong that he was the victim of a broad assassination plot in March 44 BCE. It was probably the most famous, and famously successful, plot in world history. Bolivar escaped a similar plan of assassination but still lost power and indeed did not live long after his narrow escape.

Caesar's united Roman world would only be secured by his great-nephew and heir, the man we know as the first Roman emperor, Augustus. Bolivar had no such figure to follow him, yet like Augustus, *El Libertador* would advertise his achievements in grand but precise terms. As early as the summer of 1813, after he had led patriot forces in the retaking of Caracas from Spanish royalists, he declared to the masses:

Your liberators have arrived, from the banks of the swollen Magdalena to the flowering valleys of the Aragua and the precincts of this great capital...victorious they have forded rivers...crossed bleak and icy plateaus...they have triumphed seven times...they have beaten five armies and 10,000 men.

Augustus, in a statement of achievement intended to be a kind of political last will & testament, had written:

My fleet sailed through the ocean to a land which no Roman had visited before...I pacified the sea and freed it of pirates...under my auspices, two of our armies penetrated Ethiopia, and we defeated an enemy force that had crossed the Danube...I gave eight gladiatorial games in which 10,000 men took part in combat...I celebrated three triumphs.

Bolivar knew the language of power, but his plan of political union proved to be fragile: it began to collapse almost immediately after its founding. Not so the Roman Empire, and not so the United States. Yet the Liberator's dream of free societies in South America, of Enlightenment liberty tempered by the need for strong leadership, continues to show life into the 21st century. 🏛️

Author Wayne Millan has been working behind the scenes of Maryland's historical CPC for the past decade. A teacher and historian, he has recently gone to work at the George Washington University as part of their on-line teaching initiative.

The Happening at the Harbor

The Baltimore Museum of Industry at the inner harbor was the venue for Friday's all-comers event on April 30 featuring jazz music and crab cakes.



CALLS FOR

2011 Awards Nominations!

Alumni, faculty, and friends are invited to send in their nominations for two MAA-sponsored awards by November 1, 2010. The Honor Award & Gold Key is presented to a living graduate for outstanding contributions to medicine and distinguished service to mankind. Factors considered in the selection process include impact of accomplishments, local, national, and international recognition, supporting letters, and publications. The Distinguished Service Award is presented for outstanding service to the Medical Alumni Association and University of Maryland School of Medicine. The awards will be presented during the annual Reunion Recognition Luncheon on Friday, May 6, 2011. Letters of nomination for both awards must include a curriculum vitae and should be addressed to:

Elizabeth Tso, '79,
Chair, MAA Awards Committee
522 W. Lombard Street, Baltimore, MD 21201-1636
or emailed to: maa@medalumni.umaryland.edu



Clockwise: Jessica Campbell with husband Terence, '80 and son Earl, '12, Joanne Savour '00, with her party of six; C Ronald Koons, wife Shirlee, Maxine Morse, and Leonard Morse, '55, Candace Mainor, '11 and Charelle Carter, '11

reunion 2010

Reunion Class Parties



Class of 1945 at the Maryland Club



Class of 1950 at the Hopkins Club



Class of 1955 at the Maryland Club



Class of 1960 at Tabrizi's Restaurant



Class of 1965 at the St. Paul Plaza Conference Center



Class of 1970 at the St. Paul Plaza Conference Center

[Please click on the photo to see a larger version of the photo in the Photo Gallery.]



Class of 1975 at the Home of Rick & Kathie Taylor



Class of 1985 at the Maryland Club



Class of 1995 at Turp's Sport Bar

Did we take your picture?

Please email your photo to:
 Medical Alumni Magazine
 1000 University Ave. M&A
www.medicalalumni.org
 Your online photo album is at:
www.medicalalumni.org



Class of 1980 at the Maryland Club



Class of 1990 at Tabrizi's Restaurant



Class of 2000 at the home of Tammy & Tripp Burgunder

A Singular Path

ALUMNA

PROFILE:

Sangeeta Pati, '90

While that undergraduate exposure to the National Cancer Institute played a role in turning her sights toward medicine, so did the illness she suffered as a teenager.

THROUGHOUT her undergraduate years, medical school and life itself, Sangeeta Pati, '90, has exhibited the kind of individualist thinking that places her in the league of those

who march to the beat of their own drum. A cum laude graduate with honors from UM College Park in 1986, she graduated Alpha Omega Alpha from the medical school and completed an OB/GYN residency at Georgetown four years later. If her career path has taken turns some might call nonconformist, it is her educational pedigree that makes that course compatible with that of more traditional colleagues.

As president and medical director of the Sajune Institute for Restorative and Regenerative Medicine in Orlando, Pati heads a program that provides integrative, evidence-based medical therapies combining conventional and natural medicine to almost 7,000 patients a year.

Pati's father was a physicist who traveled extensively and, as a result, she attended school in Switzerland and a British boarding school in India, where she mastered some of life's important lessons—cooking, dancing and singing. At 16, while in training for competitive sports, she was vaccinated for cholera with a contaminated needle. As the result of a near fatal attack of hepatic encephalitis, she was comatose for weeks, had numerous blood transfusions, and was bedridden for six months. Following her recovery, she returned to the U.S. and enrolled at College Park.

"I started out as a computer science major, and took a position at NASA working on weather and the temperature satellite during my freshman year," Pati recalls. "It was a terrific opportunity for someone in computer science. But it didn't take long for me to realize that wasn't for me."

She promptly changed direction to electrical engineering. Soon after that, she switched to the zoology honors program where she had the chance to work at the National Institutes of Health a couple of days a week. It probably was at that point that she began to find herself in terms of her future.

"I had the chance to work in Michael Potter's immunology laboratory at the National Cancer Institute, she says. "I wound up spending time at Litton Bionetics Research Laboratory in Rockville. It was an incredible opportunity, and undoubtedly set me on the road to a medical career."

While that undergraduate exposure to the National Cancer Institute played a role in turning her sights toward medicine; so did the illness she suffered as a teenager.

"Because my condition was extremely grave, the medical staff didn't want to transfer me to a private hospital," she says. "I was in a general ward in an Indian hospital where I was surrounded by the poorest people who could not afford care. This had a profound impact on me, and I kept coming back to it."



I wanted to help people."

Her first experience following residency was at a group practice in the Washington DC area. In a word, she says it just wasn't her concept of the way she wanted to practice medicine.

"The other doctors in the practice weren't happy with the money I was bringing in," she admits. "And to be honest, I wasn't all that happy either. Mine was a more natural approach to pain control, for instance."

She left that practice and accepted a position as medical director for Engender Health, where she worked with Columbia University under a \$50 million Bill and Melinda Gates Foundation grant to improve maternal health worldwide. For several years, she spent as many as 154 days a year in countries that included Kenya, Tanzania, Nepal, India, Bangladesh, the Dominican Republic, Thailand, Morocco, and Egypt.

"That was a turning point for me," she says. "I realized during my time abroad that nothing I had learned through my training prepared me to restore optimal health to the body in a way that would allow the body to cure itself. Medications don't cure the underlying intestinal and liver imbalances that cause cholesterol to rise. This whole experience became an epiphany for me. I was compelled to look beyond, to find other answers."

As an obstetrician, she worked with midwives and became impressed by the results of the natural approaches they applied to childbirth. If all this makes Pati seem a renegade physician, at odds with the medical profession, nothing could be further from the truth. In fact, she credits her medical training at Maryland and Georgetown for giving her the wherewithal to follow a somewhat atypical approach to care.

"It is only because I have a solid foundation in traditional medicine that I can be effective in what I am doing today," she says. "I have come to realize that there is a continuum of interventions that allows restoration of good health—and they extend from increasing oxygen and breathing to pharmacy, surgery, and beyond to the interventions I have found useful. My experience convinces me that the entire continuum has its place in sound medical practice."

Prior to establishing her practice, Pati spent a year-and-a-half researching hormone replacement therapy. She prescribes hormones that are identical to the human body including estrogen, progesterone, testosterone, thyroid, cortisol, and insulin. She saw five patients during the first month the institute, then called the Sajune Medical Center, opened. Six years later, that number has increased to almost 50 patients daily.

Although she has full privileges at a local hospital, she refers patients for surgery as needed, but claims a 90 to 95 percent complete recovery as a result of optimizing the body through a health restorative program pioneered by her.

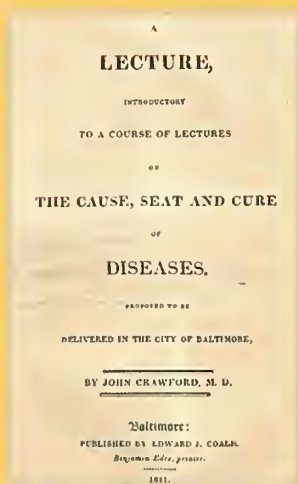
Among the most common complaints she hears from patients are fatigue, insomnia, weight gain, decreased sex drive, anxiety, depression, and joint pain. She sees patients suffering from osteoporosis, cognitive decline, Alzheimer's, cancer, stroke, and heart disease. She says the institute uses medications when appropriate. Although she has full privileges at a local hospital, she refers patients for surgery as needed, but claims a 90 to 95 percent complete recovery as a result of optimizing the body through a health restorative program pioneered by her.

As for life beyond her medical practice, Pati says it's a full one. She has a 19-year-old daughter and, when time allows, she likes to paint, dance, laugh and play with her dogs. 🐕

For additional information on Dr. Pati's program, visit her website at www.sajune.com

195 Years Ago

In 1815, a medical school library opened on the first floor of the medical building. It was created after the medical faculty purchased a collection owned by the late Dr. John Crawford. He taught courses on natural history, and his introductory lecture "The Cause, Seat, and Cure of Diseases" correctly predicted a relationship between insects and human illness. More than 500 volumes were acquired from the Crawford family.



100 Years Ago

In 1910, James J. Richardson, Class of 1889, became personal physician to U.S. president William H. Taft. Recognized as one of the leading nose and throat specialists in the country, Richardson served in this same capacity for presidents Theodore Roosevelt and Warren Harding.

President William H. Taft



25 Years Ago

In 1985, Morton M. Mower, class of 1959, co-invented the implantable automatic defibrillator. The device monitored and, if necessary, corrected abnormal heart rhythms. Mower was a cardiologist at Baltimore's Sinai Hospital and began developing the device with Dr. Michel Mirowski in 1969.

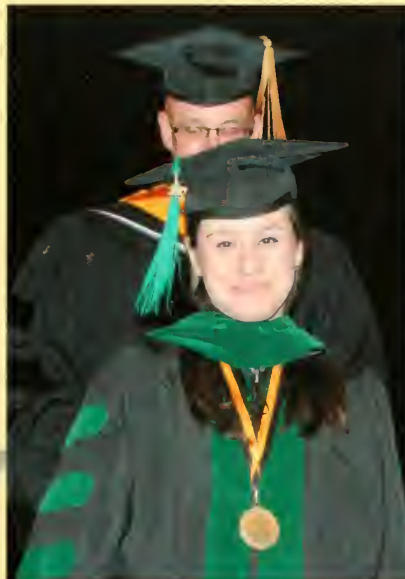
recollections

A look back at America's fifth oldest medical school and its illustrious alumni

student activities

A Salute to the Class of 2010

One hundred sixty-one graduates from the class of 2010 headed off to residency training after graduation ceremonies on May 21. **Ashley S. Huber Kinder** was recipient of both the faculty gold medal and Balder Scholarship Award for outstanding academic achievement. The keynote address was delivered by Neal Baer, MD, executive producer of the NBC television series *Law & Order: Special Victims Unit* and formerly executive producer of NBC's *ER*. This year's graduating class, 63 percent female, is training at 72 different hospitals in 27 states.



From left: Bonike Oloruntoba; Faculty Gold Medalist Ashley S. Huber Kinder; Michael C. Grant, president of the Class of 2010

Photos by Richard Lippenholz



JBDA Davidge Alliance Luncheon

The Medical Alumni Association and school welcomed 59 new members into their society for major donors on April 29, bringing the total number to more than 950 since its formation in 1978. The luncheon was held at the new Southern Management Corporation Campus Center. About 140 members were in attendance for the event.



Andrew Kramer, '99, with Jather Morton, '55, and Joseph S. McLaughlin, '56



Jean Clayton (second from left) with daughters Kay and Gina and son-in-law Jonathan

FY2010 New Members

Elm Society

(\$10,000–\$24,999)

Alumni

Timothy D. Baker, '52
Robert J. Dawson, '59
Allen R. Myers, '60
Joel S. Mindel, '64
John W. Maun, '65
Larry A. Snyder, '65
Richard M. Weisman, '73
Charles P. Adamo, '74
M.C. Kowalewski, '75
Andrew P. Fridberg, '78
Marianne N. Fridberg, '78
Karen C. Carroll, '79
Bruce C. Marshall, '79
Peter J. Golueke, '80, &
Valerie Golueke
Michael R. Kessler, '80
George Thomas Grace, '83
Mary T. Behrens, '84
Robert C. Greenwell Jr., '85
Merdad V. Parsey, '89
Tuanh Tonnu, '90
Kathryn M. Connor, '93
David Chiu, '98
Andrew C. Kramer, '99

Faculty

Dr. Robert H. Christenson
Dr. Richard P. Dutton
Dr. Robert Liss
Dr. Chris Papadopoulos

Friends

Dr. Lee Abramson
Dr. Akshay N. Amin
Mrs. Jean B. Clayton
Dr. Quintina Corteza
Mr. Jay Goozh
Dr. Nathan Levin
Mr. Michael E. Marino
Dr. Theodore T. Otani
Mr. Howard Saval
The Hon. Michael L. Subin
Mr. Robert Watt
Mr. Charles A. Wunder

advancement



Cedric X. Yu, ScD, with Harry Knipp, '76



Rona and Larry Snyder, '65

Silver Circle

(\$25,000–\$49,999)

Alumni

Henry D. Perry, '51
Brian S. Saunders, '69
Thomas F. Krajewski, '75
Robert E. Roby, '75
Michael B. Stewart, '75

Faculty

Dr. Frederic Huppe-Gourgues

Friends

Mrs. Joan Dominique
Ms. Megan E. Hills
Drs. Dan & Nancy S. Longo
Dr. A. Harry Oleynick
Mr. Richard C. Smith
Mr. Karl Zheng

1807 Circle

(\$50,000 & Above)

Alumni

Allen J. O'Neill, '45

John R. Rowell, '67
Gordon I. Levin, '68

Faculty

Dr. Cedric Yu

Friends

Dr. George C. Button
Mrs. Hilda Perl Goodwin
Dr. Cheriath R. Nath
Mr. Gunther Wertheimer



Akshay N. Amin, MD, with wife Diane

Scholarships a Priority

What if any bright student could afford to live the dream of becoming a doctor regardless of their financial situation because scholarships were available? Scholarships provide vital resources that help keep the cost of a medical education affordable.

This year our graduating seniors head to training with \$150,000 in average indebtedness, and it is no secret that these obligations are also impacting choices of medical specialty.

During the 2010 school year more than \$1.2 million was available at Maryland to deserving students through scholarships and awards. Despite this, the school still lags behind peer institutions and unfortu-

nately loses some quality applicants to other institutions offering more competitive financial packages.

The impact of scholarship support is far reaching. Since more than half of the State of Maryland's practicing physicians were either educated or training on our campus, we can help to ensure that the quality of medical care in the state remains among the best anywhere. For these reasons, raising money for scholarships is an important part of the school's fund raising campaign.

For more information on how you can help support our student scholarship program, please contact the development office at 410-706-8503.

advancement

700 Attend Fund for Medicine Gala

New Waves in Medicine was the theme of the 2010 Fund for Medicine Gala held by the medical school on March 27 at the Baltimore Marriott Waterfront Hotel. The annual event was the largest yet in its six-year history with a crowd topping 700, including a significant number of medical alumni and university leaders. John and Tee Kelly served as honorary co-chairs of the black-tie event, emceeing the program that highlighted several excellent research and clinical programs in the school. Kelly is president and senior consultant at Kelly Benefit Strategies and a member of the school's board of visitors.

A video presented the theme featuring several faculty members who described the new waves of discovery and breakthroughs taking place at the school. The video can be viewed on the school's website <http://medschool.umaryland.edu>. The program included a presentation about the dramatic, lifesaving work that faculty and medical center staff, along with Catholic Relief Services, have been performing in Haiti in the aftermath of the massive earthquake that devastated the country earlier this year. **Thomas Scalea, MD**, the Francis X. Kelly Chair in Trauma Surgery and physician-in-chief of the R Adams Cowley Shock Trauma Center, described the challenges his staff continue to experience in Haiti. Musical entertainment was provided by Mood Swings and lead **Jack Vaeth '92**.

The gala raised more than \$376,000, thanks to the participation of many generous corporate sponsors. The Whitling-Turner Contracting Company served as the presenting sponsor for the 2010 gala. Platinum Sponsors included PNC

Bank and University of Maryland Medical System. Gold sponsors were Joseph Farda and family and M&T Bank. Silver sponsors included Baker Hostetler, LLP; BD Diagnostics; Mr. and Mrs. Frank Carlucci; Comcast Corporation; Kelly Benefit Strategies; Mercy Medical Health Services; Roche Diagnostics, Inc., Skanska USA Building and University Physicians, Inc. Bronze sponsors were the Association of American Medical Colleges; Bevel Design; Dynasplint Systems, Inc.; Illumina, Inc.; Lockheed Martin Corporation; University of Maryland Baltimore Foundation, Inc.; University System of Maryland Foundation, Inc. and Webb Mason. Gordon Feinblatt sponsored the entertainment and Echo Communications was a Patron sponsor.

Next year's Fund for Medicine Gala will be held on Saturday, March 12, at the Baltimore Hilton Hotel, a short walk from the University of Maryland campus. 🏛️

Below: Michael Cryor, chairman of the SOM Board of Visitors, welcomes guests to the Fund for Medicine Gala



Martin I. Passen, '90, and wife Amy



Protect Your Assets

Certain wealthy individuals, such as physicians, directors, business owners and other professionals are more likely than others to have their personal assets attacked by creditors. Popular asset protection tools, including offshore trusts, limited liability business structures and various asset titling techniques have limitations and may involve risks. A domestic asset protection trust ("APT"), when used in conjunction with other techniques, may balance the risks and protections offered and may therefore be the best strategy to fulfill one's asset protection objectives.


In 1997, Delaware enacted one of the first domestic APT statutes (the Delaware Qualified Dispositions in Trust Act) and since then, 10 other states have enacted similar laws. Delaware has a long tradition as a leader in personal trust law, and Delaware courts have proven their competence and willingness to uphold the state's law.

An APT permits an individual (commonly called the Settlor) to create a trust, fund it with his or her assets, and have the ability to receive distributions from the trust, while the assets in the trust are protected from the individual's future creditors. The Settlor does not have to be a Delaware resident; an increasing number of individuals from all over the U.S. and beyond create Delaware APTs. To enjoy the creditor protection offered by a Delaware APT, the trust must be irrevocable and it must be administered under Delaware law. The trust instrument has to contain a spendthrift clause, which provides that the interest of the beneficiaries of the trust may not be transferred, assigned, pledged or mortgaged, whether voluntarily or involuntarily, before the trustee actually distributes trust property or income to the beneficiary. The trustee of the trust must be either a Delaware resident or a bank or trust company authorized to conduct trust business in Delaware.

Under Delaware law, the Settlor may retain the following rights to distributions from the trust: The ability to receive income or principal distributions pursuant to the trustee's or an advisor's broad discretion or a standard as determined by the trustee and/or the advisors; the annual right to receive current income distributions and/or a specified percentage (5% or less) of the value of the trust property; and as applicable an interest in a charitable remainder trust ("CRT"), a qualified annuity interest in a grantor retained annuity trust ("GRAT") or a grantor retained unitrust ("GRUT") and the use of real property

under a qualified personal residence trust ("QPRT").

The Settlor may name other beneficiaries of the trust as well, including the Settlor's spouse and children. Delaware law also permits the Settlor of an APT to retain certain additional rights, including a testamentary special power of appointment, the right to remove and replace trustees or advisors, the right to consent to or direct investments, and the power to veto distributions. The trust instrument may also contain provisions for the distribution of income or principal to the Settlor to pay the taxes due on the trust income.

Physicians and other professionals may have personal liability arising from malpractice claims to the extent that the judgment exceeds available insurance coverage or if the claim is not covered by insurance. Business owners and corporate directors may be subject to personal liability for their actions or inactions. All wealthy individuals are concerned about protecting their hard-earned assets from judgments arising out of lawsuits, such as for personal injury or property damage caused by a car accident. Still others may have a concern about protecting assets from the claims of a future spouse in a divorce settlement, particularly because of the limitations of prenuptial agreements. Delaware offers individuals a unique climate for protecting and perpetuating wealth, and a Delaware Asset Protection Trust may be an appropriate tool to address these concerns. 



This column is prepared by Ken Pittman, a senior vice president and wealth planner at PNC Wealth Management. Ken provides fee-based wealth planning services, and he can be reached at 410-237-5324 or kenneth.pittman@pnc.com

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1945: Robert F. Byrne of Wichita, Kans., reports that his health has been good since retirement in 2001. He stays busy with his seven children and 29 grandchildren and great grandchildren, reads medical journals and exercises daily at the YMCA.

1954: Robert H. Ellis of Fort Collins, Colo., continues to interpret electrocardiograms on a daily schedule for a local hospital since retirement in 1995. He also stays active with garden maintenance, woodworking, volunteering at a church and food bank, and fund raising for the athletics department at Colorado State University. **1956:** C. Herschel King of Ashland, Ore., reports that brother Daniel, '55, of Sun City, Ariz., recently retired. **Mathew H.M. Lee** of New York City had his poem "My Pupukeya" published in *Avocet*, a quarterly journal of nature poems. **1957:** Charles R. Oppegard and wife Juanita have lived in the same Denver house for 47 years. He reports that gardening, politics, and learning continue to occupy their time. For 25 years Oppegard has been conducting disability evaluations and is a volunteer in treating the homeless. **1959:** Joseph L. Darr of Indian Wells, Calif., reports that after two

authorized breakins to his chest, he is still able to recite the alphabet and tell funny stories. He has had cardiac revascularization and a heart transplant. Darr extends best wishes to classmates.

1960: Merrill T. Syphus of St. George, Utah, is performing body sculpting procedures at a medical spa. **1963:** Eric E. Lindstrom of Laurel, Miss., continues practicing part time and serves on the state medical association delegation to the AMA. Beginning in November, Lindstrom begins his term as president of the Southern Medical Association. **1965:** Ann Robinson Wilke reports that life is good in Advance, N.C. **1967:** Boyd D. Myers of Annandale, Va., is spending more time at his second home in Ft. Lauderdale, Fla., following recent volunteer work in South and Central America. He looks forward to seeing everyone at the 50th reunion in 2017; until then he wishes everyone well!

1970: John P. Caulfield of Los Altos, Calif., is consulting in research & development for biotech and small pharmaceutical companies since retiring from Hoffmann-La Roche in January. He enjoys the company of a grandson

in Phoenix, a granddaughter in Italy, and birding worldwide. **Walker L. Robinson** of Champaign, Ill., is a physician advisor at the Carle Foundation Hospital after retiring from there as head of neurological surgery in December 2009. **1971:** Daniel L.

Cohen of Alexandria, Va., is a senior partner for the international healthcare consulting firm Martin, Blanck and Associates, with focus on patient safety and population health management strategies. **Robert E. Greenspan** of Alexandria, Va., was featured in the May 2010 *Internal Medicine News*. The piece focused on his collection of books and medical antiques. **Michael J. Maloney** of Cincinnati invites classmates to read his blog *NewPsychWithDrMike.Blogspot.com*. **Robert J. Neborsky** of Del Mar, Calif., presented his model of attachment based short-term dynamic psychotherapy at the PPNOW Conference in London in 2009 and at St. John's College at Oxford in May. **1972:** Robert J. Bauer of Hollywood, Md., has a grandson Alexander, born to daughter Karen, '02, and son-in-law David on March 3. Bauer and his daughter are in practice together in southern Maryland.

Brian J. Winter and wife Pat of Ellicott City, Md., report that son Greg is receiving additional training at the University of Pittsburgh School of Dental Medicine following graduation from Maryland's dental school in spring. **1973:** Nelson H. Goldberg of Baltimore spoke at a volunteer appreciation celebration in Chestertown on April 20. Goldberg is professor of plastic surgery at Maryland and a plastic surgery specialist at Chester River Hospital Center. The event ran in conjunction with National Volunteer Week 2010. Goldberg also serves as vice president of the Medical Alumni Association. **1976:** Harry C. Knipp of Reisterstown, Md., reports that son David will be attending medical school at Maryland in fall, following graduation from the University of Pennsylvania summa cum laude. He becomes the fifth straight generation of Knipp's to attend Maryland. **1977:** Richard Feldman of Lanham, Md., helped form a new internal medicine practice group along with available multi-specialty. **1979:** William O. Richards of Mobile, Ala., is professor and chair of the department of

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THURSDAY, SEPTEMBER 16, 2010



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SCHOOL OF MEDICINE**
Department of Psychiatry

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**SCIENTIFIC
PROGRAM**

Gala
DINNER DANCE

BALTIMORE MARRIOTT INNER HARBOR HOTEL
110 S. EUTAW ST., BALTIMORE, MD 21201

More details are available at <http://medschool.umaryland.edu/jpsychiatry/anniversary.asp>

surgery at the University of South Alabama College of Medicine. **Thomas B. Volatile** of Tyler, Tex., is an orthopaedic surgeon at the Trinity Clinic, a 250-doctor multi-specialty group.

1980s **1980: William J. Oktavec** of St. Augustine, Fla., enters his 25th year of practice in the sunshine state. He is director of the San Augustine Eye Foundation. Oktavec and wife Kathryn have four children living in Baltimore. Daughter Kathleen is entering her fourth year of medical school at Maryland, while Billy, John, and Colleen are students at Loyola University. **1981: Maura K. Dollymore** has been re-assigned to the U.S. Coast Guard headquarters in Washington, DC. **Marc A. Jaffe** of Barrington, R.I., reports that son **David** graduated from Maryland in spring as a member of the class of 2010, while son **Jonathan** begins in fall as a member of the class of 2014. **Stephen Ozanne** of Cedar Hill, Tex., is president of the Dallas County Medical Society. **1982: Christopher M. Aland** of Newtown, Pa., reports that his oldest child is an incoming freshman at New York Medical School. **1984: Heidi Gorsuch Rafferty** and family recently migrated to Penn Laird, Va., where she serves as medical director of breast care at the local hospital. Her children, ages 14, 11, and seven, are thriving after the initial angst at yet another move. Rafferty reports that they will stay put for the foreseeable future. **Martin L. Schwartz** of Irondale, Ala., is a fellow in the American College of Radiology. Schwartz is vice president and musculoskeletal radiologist at Radiology Associates of Birmingham, clinical professor of radiology at the University of Alabama School of Medicine, and chairman of radiology and musculoskeletal fellowship co-director at St. Vincent's Hospital. **Mitchell H. Weiss** of Knoxville, Tenn., is chairman of the cardiology department for 2010-2011 at Parkwest Medical Center. He is privileged to work with cardiovascular surgeon **Robert Helsel**, '69 **1985: Charles S. Hames** of Spring Valley, Calif., returned from an eight-month deployment to Landstuhl Medical Center in Germany,

providing gastroenterology services to sick and wounded U.S. soldiers evacuated from Iraq and Afghanistan. Hames is a captain in the U.S. Navy. **Steven Schoenfelder** of Lewisburg, Pa., is retired and was recently hiking the Appalachian Trail. **1988: Jeffrey P. Ross** of Albuquerque, who specializes in infectious disease, is president of the Greater Albuquerque Medical Association. He was in Tucson recently to compete in a marathon. **1989: Tracy A. Berg** has been practicing vascular surgery in her home town of Spokane Valley, Wash., for 15 years. She reports that son Brian Magnuson is a freshman in college.

1990s **1991: Marjorie K. Warden** of Woodstock, Md., is a partner in Physicians Eye Care Center. **1995: Edward L. McDaniel** of San Antonio has deployed to Iraq for a second tour of duty. **1996: Eric Carr** of Owings Mills, Md., delivered the keynote address at the 2010 pre-commencement ceremony for the University of Maryland Department of Medical and Research Technology. Carr is an internist with Greater Baltimore Medical Associates in Timonium. **Teresa Cox** and husband Alan are enjoying travel throughout Europe during Cox's two-year assignment at the U.S. Naval Hospital in Naples, Italy. She is in her 14th year of active duty and was recently elected assistant chief medical officer. **Mollie (Kelly) Kauffman** reports that she and husband Jonathan live in Seattle with children Chuck, age eight, Alice, age five, and two sub-standard poodles. She works in family medicine at the University of Washington. **1997: Barbara Piasecki** of Denver is a gastroenterologist, enjoying clinical practice and all that the Rocky Mountains have to offer. She recently saw classmate **Carol Cox** and husband **John**, '98, and family in Aspen for some skiing and catching up. **1998: Ryokei K. Imai** and wife Cathy of La Palma, Calif., continue to enjoy living in southern California with children Brandon, age seven, Ryan, age four, and Taryn, age one. **1999: James L. Medina** and wife Stacie of Lancaster, Pa., proudly announce the birth of Aubrey Lauren, their third, on August 7.



What is LinkMD?

- ❖ Building a network among students, residents, faculty, and alumni
- ❖ Promoting a sense of solidarity and pride within the University of Maryland academic community
- ❖ Enables students to bond, to discover a mentor, and to prepare for professional life by bringing people together in a relaxed, candid, personal atmosphere.
- ❖ Interested doctors contact LinkMD with a date, time, and venue at which they would like to host an event, and an electronic sign-up is posted on MedScope, a website available to Maryland medical students.
- ❖ Hosting an event means providing dinner at their house, at a restaurant, meeting students for happy hour or sharing a hobby (running, biking, bowling, etc) with similarly interested students.
- ❖ While providing exposure to a specific field of medicine, students are also able to gain insight into the personalities that are drawn to different specialties.
- ❖ If you are interested in hosting an event or learning more about LinkMD, please email linkmd@som.umaryland.edu or visit <http://web.me.com/link-maryland>.

2000s **2002: Karen L. Bauer** and husband David Bowes of Leonardtown, Md., announce the birth of son Alexander Robert Bowes on March 3. **2003: Nathaniel Holzman** and wife Joanna of Boston announce the birth of Drew Lewis on February 25. Holzman is currently serving a plastic surgery fellowship. **2004: Kristina Suson** husband Boch, and son Sage of Baltimore welcomed daughter Verity into the world on December 22, 2009.

Bernhardt J. Statman, '37

Pediatrics
Livingston, N.J.
January 2, 2010

Dr. Statman trained at Newark City Hospital. A captain in the U.S. Army Reserves during World War II, his service included caring for German POWs in Bavaria. He was discharged as a major and resumed training in pediatrics before setting up practice in Newark and West Orange where he remained until retirement in 1996. Appointments included director of pediatric ambulatory care at St. Barnabas Medical Center in Livingston, consultant at Children's Hospital, and clinical associate professor of pediatrics at the University of Medicine & Dentistry of New Jersey at Newark. He enjoyed music, history, and antiques. Statman was preceded in death by wife Sally.

Samuel R. Pines, '43D

Surgery
Baltimore
May 25, 2010

After training in pathology at Baltimore City Hospitals, Dr. Pines joined the U.S. Army and was recruited into the Manhattan Project. He witnessed the first atomic bomb explosion during a test at White Sands Missile Range in July 1945, and later was present during two additional tests. Pines was discharged as a captain and returned to Maryland for surgical training at the Fort Howard Veterans Administration Hospital. He set up a private practice, enjoying privileges at Sinai and South Baltimore General hospitals as well as GBMC. He later returned to the VA and retired in 1991 as chief of staff at Fort Howard. Pines enjoyed reading, sailing, golf, tennis, and travel. He also was a lecturer at the Renaissance Institute and the Evergreen Society, and he volunteered at Living Classrooms Foundation where he taught sailing. Survivors include wife Marion, two sons, and three grandsons.

Melvin Anchell, '44

Psychoanalysis & Family Medicine
Mission Viejo, Calif.
March 27, 2010

Michael R. Ramundo, '44

Surgery
Woodbine, N.J.
May 2, 2010

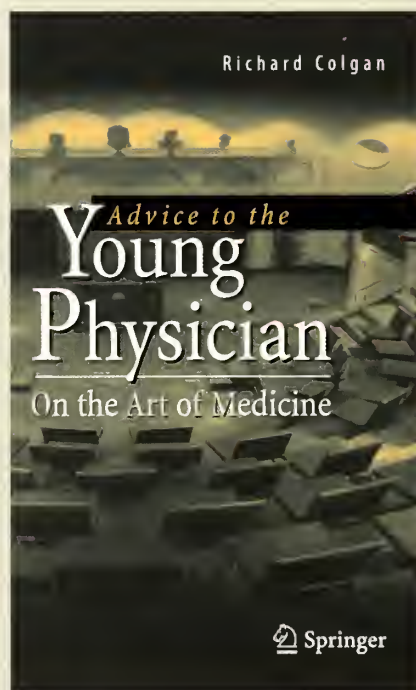
Dr. Ramundo served as a captain in the U.S. Army during World War II after graduation, interning at Paterson General Hospital and receiving residency training at Franklin Square Hospital, Jersey City Medical Center, and at the VA in Fort Hamilton, New York. During his career he maintained a private thoracic cardiovascular practice in Clifton. He was chief of thoracic surgery, director of surgery, and senior attending in thoracic surgery at St. Joseph's Hospital in Paterson, and he held similar appointments at The General Hospital Center in Passaic where he was also on the board of governors. Ramundo was clinical associate professor of surgery, thoracic and cardiovascular surgery at the University of Medicine and

Dentistry of New Jersey. From 1973 to 1974, he was president of the New Jersey Society of Thoracic Surgeons. The Passaic County Heart Association named Ramundo its man of the year in 1980, and he received distinguished service awards from St. Joseph's and the American Cancer Society in 1982 and 1988, respectively. Ramundo was preceded in death by wife Selma and son Michael Jr., and he is survived by four daughters and eight grandchildren.

Jerome Pleet, '49

Obstetrics & Gynecology
Baltimore
June 7, 2010

Dr. Pleet served at Fort Campbell in Kentucky during the Korean Conflict and was discharged with the rank of captain. In 1955, he established a private OB/GYN practice which expanded to seven offices throughout Baltimore. During his career, Pleet delivered 15,000 babies and had privileges at Church Home, Lutheran, Franklin Square, South Baltimore, and Baltimore General hospitals. Pleet was a Baltimore



Advice to the Young Physician

Written by Richard Colgan, MD, *Advice to the Young Physician* reveals how to make the transition from technician to healer as taught by some of medicine's greatest teachers. Colgan is an associate professor at the University of Maryland School of Medicine and director of undergraduate education in the department of family and community medicine.

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Orioles fan, enjoyed duckpin bowling, and was a bridge life master who competed in numerous bridge tournaments. He played golf, followed thoroughbred racing, and was a founding member of the Baltimore Glass Club—an organization of antique glass collectors. He is survived by wife Selma, three children, 11 grandchildren, and six great-grandchildren. Pleet was preceded in death by daughter Shalom.

Bate C. Toms Jr. '50
Surgery
Martinsville, Va.
June 4, 2010

Prior to medical school, Dr. Toms joined the U.S. Navy in 1941 and served in both the Atlantic and Pacific theaters. He was discharged with the rank of lieutenant commander. Union Memorial Hospital in Baltimore was the location of his internship, followed by surgical training at Union, where he was chief resident, and Maryland. Toms moved to Martinsville, Va., in 1956, becoming the city's first board-certified surgeon and member of the Virginia Surgical Society. He enjoyed playing golf and growing orchids. Survivors include wife Margaret, three sons, and five grandchildren.

Roy K. Skipton, '51
Obstetrics & Gynecology
Cheverly, Md.
April 20, 2010

Prior to medical school, Dr. Skipton served as a paratrooper in the 82nd Airborne Division, 508 Parachute Infantry Regiment of the U.S. Army—the famed Red Devils—during World War II. As an infantry platoon leader he received two Purple Hearts for wounds suffered in Holland in September 1944 and the Battle of the Bulge in December of that same year. Upon graduation from medical school, Skipton interned at Maryland and also at Maryland General Hospital where he received residency training in OB/GYN. He practiced at Prince George's General Hospital until retirement in 1984. Skipton was preceded in death by daughter Susan and is survived by wife Mary, one daughter, one son, five grandchildren, and three great-grandchildren.

William D. Rosson, '52
Internal Medicine
New Carrollton, Md.
August 19, 2007

Dr. Rosson interned at Lutheran Hospital in Baltimore and trained in internal medicine. He operated a general practice from his home beginning in 1962, and at the time of his death he was seeing patients six days a week. Rosson enjoyed painting and was an excellent cook. He is survived by three sons, one daughter, one stepson, and three grandchildren. Marriages to Elaine Quarforth and Ella Seyfer ended in divorce.

James L. Banks, '53
Family Medicine
Easley, S.C.
January 17, 2010

William P. Houpt, '54
Emergency Medicine
Bel Air, Md.
May 25, 2010

Baltimore's Mercy Hospital was the site of Dr. Houpt's internship, before serving active duty as a medical officer in the U.S. Air Force from 1955 to 1957. Houpt returned to Baltimore and worked in private practice from 1957 to 1961, and during the next nine years was medical director for Fisher Body & Chevrolet assembly plants. He shifted his specialty to emergency medicine, working at Church Home & Hospital from 1969 to 1975 and as an emergency physician at Maryland General Hospital from 1975 to 1985 where he was co-chief of the department for two years. Survivors include wife Mary Jane, four sons, and one grandson.

Robert G. Lancaster, '55
Pathology
Towson, Md.
April 24, 2010

Dr. Lancaster served in the U.S. Navy from 1958 to 1960. In 1961, he became laboratory director at Mercy Medical Center and later became its department chair. He served on Maryland's faculty, and in the 1960s was one of the founders of the Central Laboratories of Associated Maryland Pathologists. The group operated a labora-

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tory that provided blood analyses along with toxicology screenings. Lancaster had appointments on state and national committees including the College of American Pathologists and the American Society of Clinical Pathology. He enjoyed backpacking, gardening, cooking, and woodworking. Lancaster was preceded in death by wife Dolores and son Paul, and he is survived by wife two sons, four daughters, and 13 grandchildren.

Robert G. Muth, '56
Nephrology
Lutherville, Md.
January 29, 2010

Boston Naval Hospital was the location of Dr. Muth's internship, followed by residency training at the National Naval Medical Center and a nephrology fellowship at the National Institutes of Health. In 1963, Muth accepted a faculty appointment at the University of Missouri. He treated Harry S. Truman shortly before the president's death in 1972, and later Muth served a sabbatical in Wurzburg, Germany. He retired in 1984. He enjoyed travel and wildfowl carving. Survivors include wife Patricia and one son.

Robert B. Bokar, '62
Pediatrics
Hilton Head, S.C.
March 23, 2010

Dr. Bokar interned with the United States Public Health Service, spending time on the Oglala Sioux Indian reservation in Pine Ridge S.D., the Navajo reservation in Shiprock, N.M., and the Cherokee reservation in Cherokee, N.C. A pediatrics residency followed at the Dartmouth-Hitchcock Medical Center in Hanover, N.H. Bokar practiced pediatrics in Brunswick, Maine, from 1968 to 1973 where he had a teaching affiliation at Tufts University. He practiced in Canton, N.Y. from 1973 to 1986, and in Hilton Head from 1986 to 2000. He enjoyed cooking, was an avid run-

ner and biker, built scale models of boats and airplanes, and was a volunteer for the SPCA. Survivors include wife Betty, three daughters, and five grandchildren.

William E. Bruther, '66

Ophthalmology
Annapolis, Md.
May 20, 2010

South Baltimore General Hospital was the site of Dr. Bruther's internship, followed by residency training at Maryland. He was a lieutenant commander in the U.S. Navy, serving as an assistant medical officer aboard the USS Shenandoah from 1965 to 1970. After his military commitment, Bruther established a practice in Annapolis and from 1979 to 1981 was chief of ophthalmology at Anne Arundel Medical Center. Appointments also included associate examiner for the American Board of Ophthalmology, member of the legislative leadership group for Medchi, board member of CareFirst—Blue Cross and Blue Shield of Maryland, and board member of the Delmarva Foundation for Medical Care Inc. Bruther enjoyed painting, hunting, fishing, and he was a decoy carver who also collected waterfowl and bird decoys. He is survived by wife Sandra, one son, one daughter, and four grandchildren.

R. Blair Garber, '76

Family Medicine
Thomasville, Ga.
March 29, 2010

Dr. Garber received training at Tallahassee Memorial Hospital. In 1988, he relocated to Thomasville to serve as primary care physician and director of the Archbold Urgent Care Center until retirement in 2002. He enjoyed gardening and spending time with family. Survivors include wife Laura and three children.

Maureen C. Prendergast, '82

Emergency Medicine
Millersville, Md.
March 14, 2010

Upon completion of training, Dr. Prendergast worked at a hospital in Three Rivers, Michigan, and later as an emergency room

physician in Grand Rapids. She moved to Salisbury, Maryland, in 1999 and worked at Peninsula General Hospital for three years. She also taught in the physician's assistant program at Anne Arundel Community College. Prendergast retired in 2002 due to failing health. She enjoyed reading and viewing Hollywood movies from the 1930s, 1940s, and 1950s. Survivors include one son and one daughter.

Rebecca E. Byrd, '83

Internal Medicine
Randallstown, Md.
April 8, 2010

Dr. Byrd is survived by one daughter.

Family

Eugene B. Brody, MD

Psychiatrist/Administrator
Baltimore
March 13, 2010

Dr. Brody joined Maryland in the late 1950s and served as head of the department of psychiatry for three decades on the faculty. Born and raised in Columbia, Missouri, Brody received a bachelor's and master's degrees in experimental psychology from the University of Missouri and his medical degree from Harvard Medical School in 1944. He received training in psychiatry and psychoanalysis at Yale University and the New York Psychoanalytic Institute. Part of his training was interrupted by World War II when he became a captain in the U.S. Army Medical Corps and headed the neuropsychiatric service for hospitals in the European Theater. Brody later became a consultant to the international military tribunal conducting war-crime trials at Nuremberg. He joined the faculty at Yale in 1948 where he remained until moving to Baltimore in 1957. For the next 30 years Brody served as professor of psychiatry, psychiatrist-in-chief for Maryland's hospital system, chairman of the department of psychiatry, and director of the institute of psychiatry and human behavior. He was editor-in-chief of the *Journal of Nervous and Mental Disease* and was widely published. Brody testified for the defense at the trial of Arthur H. Bremer

who shot Gov. George Wallace during his presidential campaign. From 1981 to 1983, Brody served as president of the World Federation of Mental Health and was its secretary from 1983 to 1999. He retired in 1987. Brody enjoyed sailing and is survived by one daughter and five grandchildren. He was preceded in death by wife Marian and two sons.

Albin O. Kuhn, PhD

Geneticist/Administrator
Woodbine, Md.
March 24, 2010

Dr. Kuhn headed the University of Maryland Baltimore (UMB) campus from 1967 to 1980. Born and raised in Carroll and Howard counties, Kuhn graduated from the University of Maryland College Park in 1938 where he remained to earn a master's degree in agronomy and botany. After military service during World War II, Kuhn returned to College Park to become chairman of the department of agronomy and later assistant to the university president. In 1948, he earned a doctorate in plant genetics and physiology and performed additional post-graduate training at the University of Wisconsin. He was back in College Park in 1958 as executive vice president for the University of Maryland and seven years later became vice president for the Baltimore campus. His work in the early 1960s led to the formation of the University of Maryland Baltimore County (UMBC) which opened in Catonsville in 1966. He headed both UMB and UMBC until 1971, and continued exclusively as president of the UMB campus for another nine years. During his tenure the Baltimore campus expanded to 38 acres, as the hospital doubled in size and modern buildings were planned or erected for all six professional schools. Kuhn returned to College Park as executive vice president and retired in 1982. He is survived by wife Eileen, four sons, one daughter, 12 grandchildren, and 11 great-grandchildren. His first wife Elizabeth died in 1986. ☙



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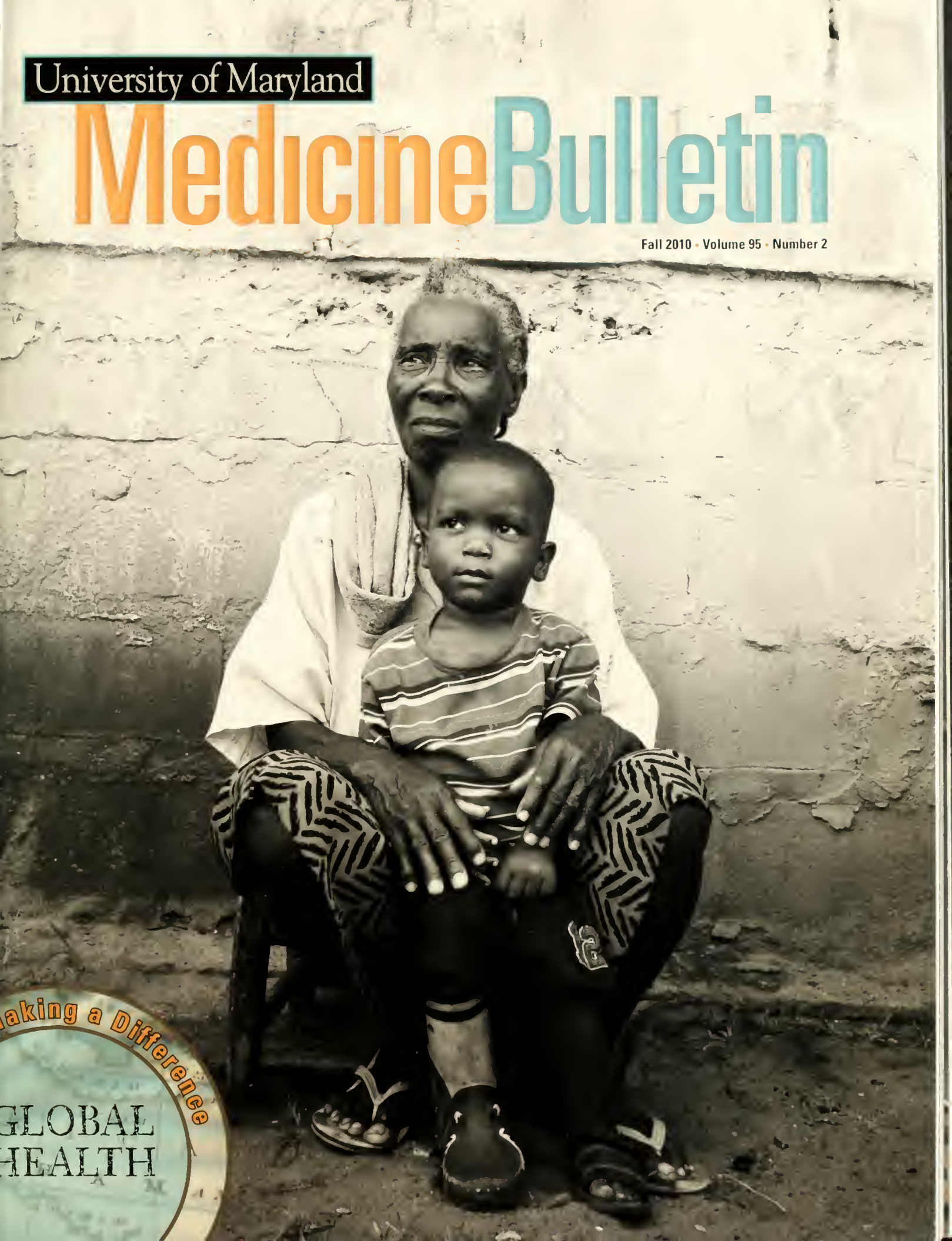
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Making a Difference

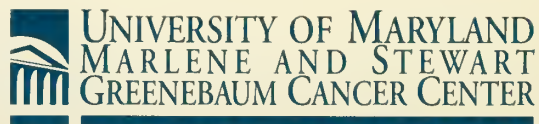
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University of Maryland Medical Alumni Association & School of Medicine



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The term "global health" hadn't yet been coined in the early 1970s when Maryland opened a clinical research center for vaccine initiatives in developing countries. A leader in global medical outreach, our faculty are now active in 23 developing countries across six continents.

The MAA Honor Roll of Donors 17

In this issue the Medical Alumni Association acknowledges gifts it received between July 1, 2009 and June 30, 2010. Included are members of the John Beale Davidge Alliance, the school's society for major donors.

Alumnus Profile: Robert Haddon, '89 36 *A Giant Step for Medicine*

As a child, Robert Haddon, '89, was captivated by America's space exploration. He also had dreams of becoming a doctor. After two residencies Haddon realized it was possible to combine both in a career. Today he is a flight surgeon at NASA's Johnson Space Center.

Alumnus Profile: Amal Mattu, '93 38 *Tenure and Teaching*

Amal Mattu, '93, was recently promoted to tenured professor of emergency medicine at Maryland. Recognized as an international leader in the field with focus on electrocardiogram interpretation, Mattu credits Theodore E. Woodward, '38, for providing the inspiration to teach.

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Since 1807, the University of Maryland School of Medicine has continuously evolved to meet the challenges of remaining innovative in teaching, clinical care, research and community engagement. As the state's only public medical school, we play a crucial role in the health care of the citizens of Maryland and beyond. More than two centuries of hard work and creativity by our dedicated faculty, staff, trainees and ardent supporters has secured for the school a place in the top-tier of American medical schools.

While celebrating our successes of the past and present, we must prepare for the future, and we must strive to build on our achievements and move to the next level of distinction. To that end, we recently published our 2010–2015 strategic plan entitled *Taking a Quantum Leap Forward*, which sets forth a series of road maps that will catapult us to even greater success.

Our goal is to improve our already strong performance in the mission areas of education, research, clinical care and community outreach and service, as well as our emphasis areas of finance, philanthropy, information technology and public affairs. There is a wealth of opportunity available to us in the years ahead, and it is important that we remain inspired by our values and vision and energized by our past accomplishments.

The innovative road maps within our strategic plan will help us create an even more educationally rich and nurturing environment for our students; lead us to a better understanding of diseases in order to increase discoveries which translate into better health for our communities; develop more interdisciplinary clinical centers of excellence; and

There is a wealth of opportunity available to us in the years ahead, and it is important that we remain inspired by our values and vision and energized by our past accomplishments.

engage our constituencies to better help them achieve and maintain very good health and well-being.

It was a challenging task to put together a road map for our future when our present has, at times, seemed so uncertain. The economic turbulence in Maryland and across

the nation—indeed throughout the world—certainly has been felt at our school. However, we have set our sights on better days ahead, and, by implementing this strategic plan, I believe we will take a quantum leap forward to achieve these transformative goals.

Highlights from each of our mission area road maps include:

EDUCATION

Increase individual learning opportunities within the curriculum to maximize student participation in high quality research and increase opportunities to participate in community service activities

RESEARCH

Launch new major collaborative, multidisciplinary, extramurally-funded programs that will study broad and complex conditions

CLINICAL CARE

Launch new multidisciplinary centers of excellence and destination programs for disorders associated with high morbidity and mortality

COMMUNITY ENGAGEMENT

Promote community service and outreach as a valued and rewarded academic activity and create a recognition plan to publicly acknowledge outstanding community engagement

Our strategic plan was very much a group effort, and as such I very much encourage alumni and friends to take a vested interest in this innovative plan and to join us as we take this quantum leap together.

To review the document please visit our website at <http://medschool.umaryland.edu/strategicplan>. 



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
University of Maryland
John Z. and Akiko K. Bowers Distinguished
Professor and Dean, School of Medicine

EVENTS Eastern Shore Reception

Catherine N. Smoot-Haselnus, '85, and husband Ronald played hosts to some 40 alumni and friends on Maryland's eastern shore June 19. The event was held at an oyster shell house dating back to the 1870s in Bivalve. A wide range of alumni attended the event, including Joseph S. McLaughlin, '56, Nevins Todd Jr., '57, David P. Largey, '57, Melvin Sharoky, '76, and Skyler Lentz, '13. Associate dean Dennis Narango represented the medical school.



Sandy Harriman, T. Ian Wiseman, Catherine N. Smoot-Haselnus, '85, Victor G. Lowe, and Donna LaBounty

EVENTS Habicht Wins Woodward Prize

For the second year in a row, **Robert J. Habicht, '04**, assistant professor in the department of medicine, was awarded the Theodore E. Woodward Faculty Prize in Medicine. It was the fifth annual award, presented to a member of the department for exemplary teaching and patient care. The endowed fund was created through the generosity of the Woodward family, alumni, faculty, and friends after the July 11, 2005 passing of **Theodore E. Woodward, '38**. A member of the faculty from 1948 to 2003, Woodward served as chairman of the department of medicine from 1954 to 1981. He is remembered as a superb teacher, master clinician, distinguished scientist, and caring physician.



Robert J. Habicht, '04

EVENTS Alumni Assemble at NMA Meeting

More than 80 alumni and guests, including National Medical Association president **Willarda V. Edwards, '77**, gathered for a reception during the annual meeting of the National Medical Association in Orlando in summer. The reception, sponsored by the Medical Alumni Association, was organized by **Robert M. Phillips, '82**, and attended by medical school dean **E. Albert Reece, MD, PhD, MBA**. The event was held at the Gaylord Palms Resort on August 2.



SOM dean E. Albert Reece, Willarda V Edwards, '77, and Robert M Phillips, '82 at the NMA reception on August 2

EVENTS

Alumni Can View Classroom Lectures On-Line

The University of Maryland School of Medicine is recognized for its excellent education, taught by a plethora of outstanding educators. Now, many of the lectures and seminars taught to medical students can be viewed by alumni as well, thanks to an effort by the Medical Alumni Association which has been warmly received and supported by the medical school.

The idea was first proposed by **Rick Taylor, '75**. The Taylor family has generously contributed to the education of Maryland medical students in multiple ways, including financial support for the modern renovation of the freshman lecture hall now bearing the Taylor name.

Gary D. Plotnick, '66, professor of medicine, former assistant dean for student affairs, and member of the MAA Board of Directors is coordinating the effort. He is the ideal candidate, having received nine gold apple awards and seven student council faculty teaching awards. Plotnick, too, believes the project is long overdue. Ten years ago, after becoming co-director of the sophomore pathophysiology and therapeutics course, he sat through most of the lectures presented during a six-month period.

"As a clinician, listening to these presentations and once again hearing basic concepts as well as the new discoveries was a refreshing and wonderful experience," Plotnick said. "The thought of making these classes available to alumni—to enrich our professional careers—seemed


like a wonderful idea, one that would be enthusiastically embraced."

Here's how it works: lectures to the freshmen and sophomore medical students in the Taylor Lecture Hall are recorded, and a file is created. The faculty members are asked if they will permit their presentations to be placed on the MAA website (www.medicalalumni.org) and made available for viewing by dues-paying members of the association who agree to abide by copyright and other intellectual property guidelines.

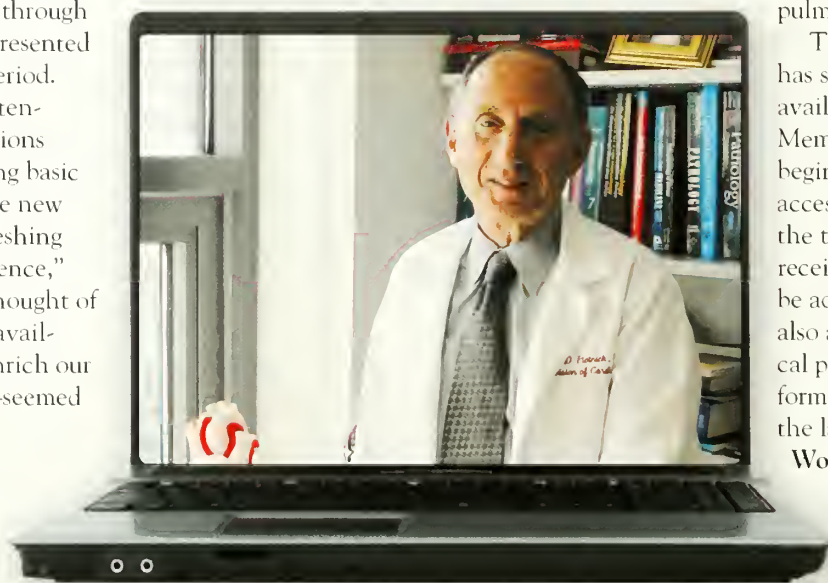
"Our faculty has been overwhelmingly enthusiastic about it," Plotnick added. "In fact, most are flattered by the invitation to participate."

To date, permission has been granted for more than 300 lectures delivered to first- and second-year students. Topics include anatomy, genetics, immunology, physiology, pharmacology, biochemistry, infectious diseases, and

pathophysiology. In addition, there are lectures on various topics such as statistics and epidemiology, domestic abuse, geriatric assessment, and newer aspects of cardiopulmonary resuscitation.

The MAA currently has some 50 lectures available for viewing. Members paying dues beginning July 1 have access for 365 days from the time payment is received. Lectures will be added each year, and also available are historical presentations from former faculty, including the late **Theodore E. Woodward, '38**. 

Our faculty has been overwhelmingly enthusiastic about it," Plotnick added. "In fact, most are flattered by the invitation to participate."



Gary D. Plotnick, '66

Transitions



Gregory F. Handlir, MBA, senior associate dean for finance and resource management, retired June 30. Handlir joined the medical school in 1971 as an assistant staff administrator in the office of financial affairs and was promoted to assistant dean for fiscal affairs in 1973, becoming the youngest medical school CFO in the country. During his tenure, the medical school has grown from 80,000 net square feet and a budget of \$40 million to more than 800,000 net square feet and a \$1 billion budget. He is being retained as an advisor through December 31.



Reuben Mezrich, MD, PhD, the John M. Dennis Chair and Professor of Diagnostic Radiology and Nuclear Medicine, resigned his position in July. Mezrich had served as chairman since joining Maryland in 2002. After spending a year with the NIH to obtain additional expertise in the area of bioengineering and medical imaging, Mezrich is expected to return to Maryland's faculty. William F. Regine, MD, the Isadore and Fannie Schneider Foxman Chair and Professor of Radiation Oncology, is serving as interim chair until a successor is announced.



James P. Nataro, MD/PhD '87, was named chairman of the department of pediatrics at the University of Virginia School of

Medicine. Nataro had been on Maryland's faculty since 1991, serving as professor of pediatrics, medicine, and microbiology & immunology, vice chair of the department of pediatrics, head of the division of infectious diseases and tropical pediatrics, associate director for research training, and chief of the molecular diagnostics & microbiology section of the school's center for vaccine development. Nataro is an international leader in research and pathogenesis of diarrheagenic *Escherichia coli* and *Shigella*.

Louisa A. Peartree, MBA, assistant dean for administration in the office of finance and resource management, was named associate dean for finance and business affairs and chief financial officer on July 1. She is responsible for stewarding the school's financial resources supporting research, clinical, teaching, and outreach missions. Peartree oversees the school's operating and capital budgeting process, financial planning, analysis, and control, and she works with leadership on matters related to space management and human resources. She has held management positions with the medical school's practice plan since 1992 and joined the dean's office in 1998.



Gregory Robinson, Dmin, MA, assistant dean for operations and human resources, was promoted to associate dean for academic administration and resource management on July 1. Robinson is responsible for overseeing the school's non-financial resources supporting the school's research and teaching missions. This includes facilities management, human resources management, and academic and general administration. Robinson has served in the dean's office of the medical school since 1982.



William E. Tucker, MBA, CPA, chief corporate officer for Maryland's faculty practice plan since 2006, was named assistant dean for practice plan affairs at the medical school. In this dual role, Tucker will ensure that University Physicians, Inc., maintains a balanced alignment with the academic, clinical, and research programs, and each department practice plan is operating in an efficient and effective manner. Tucker joined the faculty practice plan in 2000 as director of planning and business development. 🏢



Improving Cognition

FOR THE FIRST TIME, scientists have linked a brain compound called kynurenic acid to cognition, possibly opening doors for new ways to enhance memory function and treat catastrophic brain diseases, according to a Maryland study. When researchers decreased the levels of kynurenic acid in the brains of mice, their cognition was shown to improve markedly, according to the study, which was published in the July issue of the journal *Neuropsychopharmacology*. The study is the result of decades of pioneering research in the lab of **Robert Schwarcz, PhD**, professor of psychiatry, pediatrics and pharmacology and experimental therapeutics.

"We believe that interventions aimed specifically at reducing the level of kynurenic acid in the brain are a promising strategy for cognitive improvement in both healthy individuals and in those suffering from a variety of brain diseases ranging from schizophrenia to Alzheimer's disease," says Schwarcz.

Kynurenic acid is a substance with unique biological properties and is produced when the brain metabolizes the amino acid L-tryptophan. The compound is related to another breakdown product of tryptophan known as quinolinic acid. In 1983, Schwarcz published a paper in the journal *Science* identifying the critical role excessive quinolinic acid plays in the neurodegenerative disorder Huntington's disease. He has since designed a therapeutic strategy targeting quinolinic acid for the treatment of Huntington's disease. Schwarcz also is involved in a company called VistaGen, which pursues the development of neuroprotective drugs based on this concept.

In the study published in July, Schwarcz and his colleagues at the Maryland Psychiatric Research Center examined mice that had been genetically engineered to have more than 70 percent lower kynurenic acid levels than ordinary mice. These mice were found to perform significantly better than their normal peers on several widely used tests that specifically measure function in the hippocampus—a critical area of the brain for memory and spatial navigation. The mice were clearly superior in their ability to explore and recognize objects, to remember unpleasant experiences and to navigate a maze. The engineered animals also showed increased hippocampal plasticity, meaning they had a greatly improved ability to convert electrical stimuli into long-lasting memories.

"These results are very exciting because they open up an entirely new way of thinking about the formation and retrieval of memories," says Schwarcz. "Kynurenic acid has been known for more than 150 years, but only now do we recognize it as a major player in one of the fundamental functions of the brain. Our most recent work, still unpublished, shows that new chemicals that specifically influence the production of kynurenic acid in the brain predictably affect cognition. We are now in the process of developing such compounds for cognitive enhancement in humans." 🏠



World War I University Hospital Photo Surfaces



More Variation in Human Genome than Expected



Scientists are finding more variation in the human genome than they had previously expected, now that new technologies are allowing researchers a closer look at the genomes of many individuals, according to a new study by Maryland researchers. The study, published in the June 25 issue of the journal *Cell*, is one of the first to take an in-depth look at transposons, known as "jumping genes."

Transposons are segments of DNA that can replicate themselves—meaning that each generation of a human family has more transposons in its genome than its ancestors—and move to new sites in each individual person's genome. The researchers examined the genomes of 76 people and found that new occurrences of transposons were surprisingly prevalent.

"A key part of this study was that we developed new, next-generation sequencing and informatics technologies that allowed us to look at these variants for the first time in many human genomes," says **Scott E. Devine, PhD**, associate professor and research scientist at the school's institute for genome sciences.

"As soon as the human genome was

sequenced, it became clear that it was going to vary from one person to the next. Such variation dictates why people look different from one another, why they have different susceptibilities to diseases and different life spans. In this study, we're looking at transposons that insert themselves in new places in various genomes and disrupt the blueprint."


Devine continues: "Some transposons do not seem to have a serious impact on the genome, but several dozen transposon insertions have been identified that have caused human disease by disrupting genes," says Devine, who first began research for this study while on the faculty at Emory University. "We think this is just the tip of the iceberg,"

"We saw for the first time that new transposon insertions are happening at a high frequency in each person's genome," Devine continues. "We found that if you have a child, the child could have one or more new copies of these transposons that you don't have. From these find-

Transposons are segments of DNA that can replicate themselves—meaning that each generation of a human family has more transposons in its genome than its ancestors—and move to new sites in each individual person's genome.


ings, we predict that there is going to be more variation in human genomes than scientists first believed."

The transposons found in lung cancer tumor genomes had never been seen before, and could have significance for oncology research. "The mutations could possibly be causing cancer or tumor progression," Devine explains. Technological advances in DNA sequencing have made it possible to examine transposons in greater detail, Devine adds, and also have cut the cost of sequencing a human genome from millions of dollars just a few years ago to as little as \$10,000 now.

The research was funded by the National Human Genome Research Institute, part of the National Institutes of Health, the American Cancer Society and Sun Microsystems. 

A RARE PHOTO featuring the staff of Maryland's 42nd Hospital during World War I is now on display in the health sciences library.

Base Hospital No. 42 was organized in June 1917 and set sail for England a year later with 34 officers, 102 nurses, and 200 enlisted men. With maximum capacity of 2,000 beds, the hospital began receiving patients in Bazoilles-sur-Meuse, France, in July 1918, and during its six months of activity treated 2,593 surgical and 4,559 medical cases.

The panoramic snapshot was donated by **John Rizzo**, an employee with the VA Maryland Health Care System who received it from his father Louis. It required extensive restoration work funded by the Medical Alumni Association through the Bowers Collection of Medical Artifacts Endowment Fund. 

UMB historical librarian Richard Befles and Davidge Hall Restoration Committee chairman Milford M. Foxwell Jr., '80

A Medical Labyrinth: the Plot Thickens

By John Dove, MBBS, LRCP, FRCS, Msc.

I suspect that not even **Phil Mackowiak**, '70, creator of Maryland's popular historical clinicopathological conference could have foreseen the consequences when he invited me to present the history of Simon Bolivar, the liberator of South America, at his 17th conference on April 30.

Simon Bolivar was chosen as a subject because there has been considerable controversy not only as to the cause of his death but also regarding the medical bona fide of the doctor who treated him. Bolivar is the national hero of Venezuela, and President Hugo Chávez had already set up a team to investigate the cause of Bolivar's death; so when he became aware of Mackowiak's conference he sent his representatives to Baltimore.

Based on my research into Bolivar's medical history, Paul G. Auwaerter, MD, MBA, FACP, specialist in infectious diseases at Johns Hopkins and clinical discussant at the conference, came up with the suggestion that at least some of Bolivar's terminal symptoms could have been the result of arsenic given as part of the medication for Bolivar's repeated attacks of malaria. This gave rise to great excitement in certain quarters in Venezuela because this was thought to lend credence to the idea that Bolivar might have been deliberately poisoned.

I am now in close contact with members of President Chávez's investigation team and was recently invited to Caracas to take part in the celebrations in relation to Venezuela's 200th anniversary of independence

and the anniversary of Bolivar's birthday on July 24.

Under conditions of proper scientific rigour Bolivar's tomb has now been opened, and the few scraps of bone and teeth are at present being evaluated. The scientific study of the few remains from the tomb will take some months. The first point to be established is as to whether or not there will be sufficient material for DNA analysis because it will need to be established as to whether or not the remains are indeed those of Simon Bolivar. The reason for this is that prior to Bolivar's body being transferred to Venezuela and while it was still lying in Santa Marta, Colombia, there was a major earthquake, and the burial urns were all jumbled up. It was announced in Caracas that the tomb of Bolivar's sister, María Antonia, will be opened so that DNA comparisons can be carried out.

Through my liaison with the investigation team in Caracas, I am working towards setting up a major international conference in Caracas in 2011 at which we should be able to come to as definitive a decision as possible regarding how Bolivar died. 🏛️

Note: The author was the Historical Lecturer during the 17th Historical Clinicopathological Conference at Maryland on April 30, 2010, focusing on the illness and death of Simon Bolivar.



John Dove, MBBS, LRCP, FRCS, Msc.

Background photo: The Pantheon in Caracas house Bolivar's remains.



**She thinks she has to
learn to live with it.**

What she doesn't know is there's no need to adjust her lifestyle since involuntary loss of urine is very treatable. She doesn't know she'll go to the University of Maryland Medical Center where she'll see nationally recognized specialists in urinary incontinence. And she hasn't learned there are minimally invasive procedures to treat her symptoms, or that she'll be back to a normal, active life in no time. But she'll be very happy when she finds out.



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By Rita M. Rooney

HEALTH

Making a Difference

Behind every triumph is motive, the incentive that drives heroism, builds cities, and saves the lives of children in far-flung places. Maryland faculty, active in 23 developing countries across six continents, share a common incentive—to fight the catastrophic diseases affecting the most impoverished people in the world. Their combined track record of success places them among the first and foremost of those responding to the call of global medicine.

Theirs is the kind of success that is powered by deep, personal concern that their work will make a difference. They cheerfully tackle stifling heat, Monsoon rain, and distance from family, and talk instead of camaraderie among colleagues and the satisfaction of being part of the team.

Physicians and health care professionals at the institute of human virology (IHV) battle against AIDS in seven African and two Caribbean countries, where the university's PEPFAR funding (the President's Emergency Plan for AIDS Relief) recently exceeded \$100 million in support of research, clinical care, and training of medical health care providers.

On another part of the medical school campus, the center for vaccine development (CVD) was founded in 1974 (long before the phrase "global health" was coined), and has since expanded its presence throughout the world, developing and testing vaccines against devastating diseases worldwide.

Myron M. Levine, MD, the Simon and Bessie Grollman Distinguished Professor of Medicine, Pediatrics, and Epidemiology & Public Health, and Microbiology & Immunology, who heads the CVD, reports on a recent historic initiative—the Global Enterics Multi-Center Study (GEMS)—targeting severe and moderately severe diarrhea, one of the two top causes of death (along with pneumonia) among young children in developing countries.

"The study is conducted in seven sites in Africa and Asia," Levine says. "We have put together a consortium of the world's major players in the diagnosis, treatment, and prevention of diarrheal disease. This study may



Karen Kotloff, MD, and Myron M. Levine, MD, with Sama Sow, MD, director-general of the CVD Mali site

Dr. Levine can be contacted at mlevine@medicine.umaryland.edu



Karen Kotloff, MD (second from left) onsite in Mali

Myron M. Levine, MD,...who heads the CVD, reports on a recent historic initiative—the Global Enterics Multi-Center Study (GEMS)—targeting severe and moderately severe diarrhea, one of the two top causes of death (along with pneumonia) among young children in developing countries.

well be the largest prospective case/control study of a communicable disease syndrome ever carried out.”

Designed by the CVD and funded in its entirety by the Bill and Melinda Gates Foundation, GEMS implements an identical protocol in all seven sites. Children up to 59 months of age are studied to find pathogens causing the disease. Karen Kotloff, MD, professor of pediatrics and medicine, reports the study aims to resolve the many gaps that exist in medical literature.

“We’re looking at multiple pathogens so we can identify those causing the largest disease burden among children in developing countries,” she says. “In different settings, pediatric ages and times of the year, diarrheal illness can be caused by different pathogens. To guide the development of the most critically needed vaccines to prevent the disease, it’s necessary to prioritize the most important causes.

“GEMS looks for a wide range of pathogens among children with severe diarrhea, and compares results with the isolation of those pathogens from children of the same

age from the same community without diarrhea. Then using conservative statistical methods, the results are analyzed to determine the fraction of diarrhea that can be attributed to any one specific germ.”

She adds that all sites will have completed enrollment for the study by March 2011. “It is our intent to analyze results quickly and share them with the scientific community as soon as possible,” she says.

Vaccine Progress

Levine says vaccinology didn’t exist as a medical discipline when the center opened 36 years ago. Since then the CVD has gained an international reputation for developing and testing its own candidate vaccines, as well as for conducting clinical evaluation and field trials on vaccines made by other investigators, and for measuring the burden of specific infectious diseases in many developing countries.

Development of a vaccine is only the first step of an uncertain enterprise, followed by understandable delays in approval and licensing. The

real problem, according to Levine, is finding a manufacturer willing to take on production of a preventive product, destined for use by poor people in developing countries. Levine speaks with the knowledge of having cholera and typhoid vaccines sitting on a shelf at the CVD.

“Manufacturers need to make a profit,” he says. “There has to be a predictable market for the product as well as need driven by the disease. When you’re developing vaccines for diseases affecting populations in the U.S. or Europe, that isn’t a problem. It’s quite different when the drug or vaccine is one not in need in the industrialized world.”

In the 1970s and 1980s, typhoid fever was highly endemic in Santiago, Chile. In field trials designed and supervised by Levine over a period of 12 years, more than 500,000 Chilean school children participated in the field trials that documented the safety, practicality and efficacy of a live, oral typhoid vaccine (ty21a). Results of those field trials led to licensure of the vaccine by the FDA. Because three or four doses of Ty21 were needed to

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stimulate an accepted level of long-lived protection against typhoid, Levine and colleagues went on to develop a more potent, single dose live oral vaccine, strain CVD 909. In addition, the CVD team, led by Levine, has developed a live, oral vaccine candidate, strain CVD 1902, to prevent paratyphoid fever—a disease that is clinically identical to typhoid fever—and that is increasingly caused by germs that are resistant to antibiotics. CVD 1902 is in early clinical trials. The research team at CVD has a Salmonella vaccine in early clinical trials and also has received an NIH grant to develop a vaccine targeting non-typhoidal Salmonella, a problem in both developing and industrialized countries.

CVD 103-HgR, the first genetically-engineered live oral vaccine of any kind, was developed at the CVD and, following extensive testing worldwide, was licensed as a single dose cholera vaccine by many countries. However, the manufacturer of the vaccine had financial problems that led to a disruption in production. A new company is gearing up to produce it, and hopefully to obtain FDA approval.

James Kaper, PhD, professor and chair of the department of microbiology and immunology, is the CVD faculty member who did the basic science on CVD 103-HgR. The NIH MERIT awardee points out its value in requiring only one dose.

"There was an outbreak of cholera in Micronesia while the vaccine was commercially available, and the World Health Organization (WHO) used our vaccine to curb the outbreak," he says. "The only other licensed oral cholera vaccine requires two doses. When you are facing an outbreak of cholera that is rapidly sweeping through a population, you need to stop it fast—with just one dose."

Mission Against AIDS

Nigeria, which has the largest population in sub-Saharan Africa, has the second highest HIV infection rates in the world, and ranks 5th in the world for tuberculosis. William Blattner, MD, professor of medicine, and epidemiology & public health, who heads IHV's Nigeria project, calls it "a deadly alliance between HIV and multi-drug-resistant tuberculosis."

PEPFAR and Centers for Disease Control grants

are funding IHV's million dollar laboratory complex in Nigeria, needed to diagnose this fatal form of TB that can only be diagnosed safely in such a laboratory. Determining the frequency is the first step in stopping the spread to the already compromised HIV population in Nigeria, and to ensure that additional medications are provided in a structured environment.

With 139 prevention sites, and its work with 42 community-based organizations, the impact of IHV's presence in Nigeria reaches 150,000 people who are receiving care,

and 97,000 in treatment since 2005. Beyond treatment, preventing mother-to-child transmission is an important focus in which, without intervention, one in three children can become infected and many more orphaned.

Recent transitioning of the PEPFAR program has broadened its mandate beyond the focus of HIV-AIDS to women's health, malaria, TB, and cancer. Blattner reports that the institute is adapting its own plans to accommodate changes in PEPFAR. "We are collaborating on several fronts with medical school investigators in other disciplines in an effort to tap into some of these resources and increase our services in Nigeria and elsewhere," he says.

He reports that there is ongoing work with the department of neurology to determine the impact of the HIV virus on the brain. As a result of a spiraling incidence of cervical cancer in Nigeria, the IHV is collaborating with the IHV-Greenebaum Cancer Center's viral oncology program.

One might expect that people who spend weeks in impoverished countries, fighting communicable diseases that have the strength to kill, would take a somber approach to their work. Blattner, however, calls it inspirational. He has taken his family to Nigeria on several occasions. His son, a recent college graduate, volunteers. His



William Blattner, MD

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wife travels to the site, and is part of a support group, the Hope for West Africa Foundation. Even Blattner's church has sent a contingent of people to help, and independent of the IHV, raised \$120,000 for the local hospital there.

"There is a very positive impact in what we are doing in Nigeria," Blattner says. "You don't have to be an MD or PhD to want to be part of it. Our COO, Dave Wilkins, periodically takes a team to Nigeria to evaluate the financial methods used by our Nigerian partners, and provide any help they may need."

Education Key

In both Africa and the Caribbean, Robert Redfield, MD, professor of medicine, and IHV division head, focuses on furthering the work of the institute through education, specifically advanced training of health care providers native to the region who work in local clinics and hospitals. He explains the program works in several ways.

"We're training local health providers," he says. "We also have a repatriation program, in which we are identifying highly trained African physicians, now working in the US, and encouraging them to return to Africa. We also



Robert Redfield, MD

are providing training in internal medicine and infectious diseases to African physicians."

Doctors, especially those in leadership roles, are critically needed in local clinics and hospitals. Redfield notes those who train in Africa and then come to the US to practice, as well as those who train here and remain, are not entirely motivated by lifestyle or income.

"Many of these physicians have a sense of deep loyalty to their homeland," he says. "They come to the US and Europe to practice because they don't have the technology in their own country, and because there is limited opportunity for advanced clinical training in their homeland."

The ways in which the institute is helping to provide

such training in infectious diseases to doctors in rural areas of Africa and the Caribbean are both creative and effective.

Redfield highlights the story of a young physician who graduated from medical school and was mentored in clinical medicine by IHV staff in Kenya. The young physician is a medical resident and soon will complete a fellowship in infectious diseases. After that, he will return to Nairobi to provide clinical leadership and train the next generation of Kenyan doctors in infectious diseases in his homeland, thereby breaking the cycle of need for physicians to leave the country to receive advanced clinical education.

"So far, our educational efforts have placed highly trained infectious disease specialists in Kenya, Nigeria, and Zambia," Redfield says.

In fact, African physicians now are leading IHV's clinical education efforts in Rwanda, Uganda, Tanzania, Nigeria, and Zambia. Another phase of clinical training is IHV's assertive progress in establishing strategic alliances with key institutions which will become sources for faculty recruitment. For example, in Zambia, in partnership with the University of Zambia, IHV and Zambian faculty teamed together three years ago to create a one-year advanced clinical training program in HIV, TB, and malaria.

"We are on target in providing advanced clinical training to approximately 15 percent of all Zambian practicing physicians upon completion of the program's fifth year," Redfield says.

Hope Against Malaria

Malaria cases worldwide number more than a million each year. The most vulnerable victims are African children. According to the WHO, a child dies of the disease every 30 seconds, and there is no vaccine approved for malaria.

Malaria cases worldwide number more than a million each year. The most vulnerable victims are African children. ... there is no vaccine approved for malaria. So far, defense has been limited to the use of insecticides and mosquito netting.

So far, defense has been limited to the use of insecticides and mosquito netting. Drugs are available, but resistance to the medications is high. Children who have yet to build immunity to the parasite that causes malaria are hardest hit. That's why results of research headed by Christopher Plowe, MD, MPH, professor of medicine and chief of CVD's Malaria section, are being met with considerable optimism by the scientific community.

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Plowe's study, conducted in Mali, West Africa, is sponsored by the U.S. Army, and funded by the NIH, the U.S. Agency for International Development, and the Howard Hughes Medical Institute. It shows a new vaccine tested against malaria to be safe in children. The study includes antibodies found on some children for up to two years. Results of approximately 400 children in the phase II trial

indicate a significantly higher level of antibodies with the new vaccine than with any previously tested.

"We're not home yet, but our results are very encouraging," Plowe reports. "Right now, we're trying to determine which dose will provide the most effective immune response."

Kirsten Lyke, MD, associate professor of medicine, whose work is centered on malaria in Bandiagara, Mali, talks of the partnerships that underline malaria prevention.

"The relationship between CVD and the University of Bamako is an established medical collaboration," she says. "What the American partners have to offer is access to grants and funding, as well as a higher graduate level of training."

In the year 2000, the incidence of childhood malaria in Bandiagara was between one and two infections a year per child. Prior to the Mali year-round presence of CVD and Malian investigators, 50 percent of youngsters with the most severe form of the disease, cerebral malaria, died. That number has been dramatically reduced to about two percent of children between one and six, as a result of intervention by CVD and the University of Bamako.

Lyke, who has a young son, now confines her work primarily to Baltimore, conducting immunology trials. She says she misses the flexibility of having her "feet on the ground in Mali" and hopes to return in the near future.

"Whether I'm here or there, the real reward in this work is making a difference in helping an underserved population," she says. "We have a role in the basic science, the testing of a vaccine or drug, taking it to the field, and then processing samples back here. Our work comes full circle, and that's rewarding."

Drug Resistance

In Malawi, Africa, the fight waged by CVD against malaria continues, where Miriam Laufer, MD, MPH, assistant professor of pediatrics, monitors resistance to drugs, focusing on preventing the spread of drug resistance among malaria patients.

"We are interested in the drug, chloroquine, the drug that became ineffective during the spread of resistance de-



Christopher Plowe, MD, MPH



Kirsten Lyke, MD



Dr. Lyke can be contacted at klyke@medicine.umaryland.edu and Dr. Laufer at m Laufer@medicine.umaryland.edu

ades ago, and now is no longer used in most sub-Saharan Africa,” Laufer says. “We questioned what happened once countries stopped using it. Did chloroquine resistance continue or did the chloroquine susceptible parasites come back?”

The team first did a study of parasite genetics and found that the chloroquine susceptible malaria had, in fact, returned to Malawi. Laufer and colleagues then conducted a clinical study to show that chloroquine worked in treating malaria in children, as published in the *New England Journal of Medicine* in 2006. This phenomenon has occurred only in Malawi, the first country to stop using it to treat malaria. Chloroquine-resistant malaria is still common in the countries surrounding Malawi, but a similar trend is expected in those countries in the next five to 10 years. Clinical trials have begun among pregnant women, a population especially vulnerable because the disease affects both mother and infant.

“There are challenges in our work,” Tapia concedes. “Local myths and misunderstandings often can keep a child from getting the care he or she needs.”

Laufer still manages to find time to travel to Africa, even with a small child. She took him to Malawi when he was seven-months old, and reports he loved the food, music, and family-oriented society in the country.

In Mali’s capital city of Bamako, Milagritos Tapia, MD, assistant professor of pediatrics, works with doctors in the local hospital, conducting research on bacterial infections including meningitis, septicemia, childhood diarrhea, influenza, and those that cause pneumonia. She is involved in an epidemiological study of influenza, for which there were no previous data in the country.

“We have begun a household surveillance program of pregnant women,” Tapia reports. “When a pregnant woman comes to a health center presenting with influenza, we provide care and then ask if we can visit her during her pregnancy. Those visits continue after the baby is born, and we monitor the family and other contacts for signs of influenza.” Based on its first-in-the-country resources and capability, CVD Mali has been chosen by the government as the Mali National Influenza Center.

Vaccine trials in Bamako include one for Rotateq, a vaccine targeting rotavirus diarrhea. While Rotateq is given routinely to infants in the US, it had not been recommended for those in Africa, pending confirmation of its safety and effectiveness by CVD and others. Tapia says

another field trial of a vaccine, MenAfriVac, that aims to prevent a particularly explosive form of meningococcal meningitis—a serious threat to Mali children and adults—has been approved by WHO as a result of the trials.

“There are challenges in our work,” Tapia concedes. “Local myths and misunderstandings often can keep a child from getting the care he or she needs. But those challenges can be overcome by patiently explaining the need for intervention. In the end, the knowledge that we’re helping so many people outdistances any difficulty.”

A Presence in Haiti

When a devastating earthquake hit Haiti in January, IHV was already on the scene, a consequence of its 2004 partnerships with Catholic Relief Services (CRS) and PEPFAR. The team treats 30 percent of Haiti’s HIV/AIDS patients, and provides medical training for Haitian health professionals. St Francois Hospital, a key partner of IHV was almost totally destroyed in the quake, and 120 patients and medical staff were buried alive. Members of the IHV/CRS team managed to pull 35 surviving patients from the wreckage.

Out of that tragedy and the enormous rescue effort undertaken by the R. Adams Cowley Shock Trauma Center, Haiti soon will benefit from a broadening of postgraduate medical training beyond infectious diseases, to include trauma and orthopedics under the Shock Trauma’s leadership.

Redfield reflects, “Maryland can be proud of doing its part to help physicians and health care personnel in Africa and the Caribbean to get the training they want, and now can use for those they serve.”

As someone who has been working in undeveloped countries since 1970, Levine talks candidly about the sacrifices made by those who choose a career in global medicine.

“When I see my young colleagues skyping their kids, as I now do with my grandchildren, I think back to what it was like in the 1960s and 1970s when there were no cell phones, e-mail, fax machines, portable computers or BlackBerry devices,” he says. “I kept a stack of post cards to send home to let family know I was alive and well.”

He recalls one time he placed a call to his wife from Bangladesh. The call took 24 hours to go through, and he had to be physically present by the phone for about 18 hours to be on hand when the connection was made. He says long absences from family are still painful. Little League games, dance recitals, and birthdays often are missed. There are rewards, however, including making life-long friends among many cultures, and taking pleasure in watching some countries develop over the years. And for faculty members of CVD and IHV, there is that crowning reward—making a difference. 🏠

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Honor Roll 2010

The Honor Roll is published in the fall issue of the *Medicine Bulletin* magazine each year. The following lists gratefully acknowledge gifts made to the Medical Alumni Association of the University of Maryland, Inc., between July 1, 2009 and June 30, 2010.

Medical Alumni Association Honor Roll 2010

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The John Beale Davidge Alliance is a permanent recognition society for major donors of the University of Maryland School of Medicine. Established in 1978, the Alliance is named in memory of Dr. John Beale Davidge, the medical school's founder and first dean who in 1812 raised the necessary capital to fund construction of the school's first medical building. The society includes alumni, faculty, and friends of the medical school.

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The 1807 Circle is the highest honors level of the Alliance, recognizing donors for gifts of \$50,000 and above. The 1807 Circle was established in 1993.

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Theodore E. Woodward

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1943M

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John M. Bloxom III

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Benjamin Berdann

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1947

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Kathleen R. McGrady

Robert J. Venrose

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1954

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Marvin S. Platt

1957

Selina Balco Baumgardner

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1958

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Honor Roll 2010

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1976

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Melvin Sharoky
Benjamin K. Yorkoff

1977

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Barry A. Wohl

1978

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Elizabeth M. Kingsley
Ruth A. Robin
Ellen L. & Dr. Bruce Taylor
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1980

Mehtap Atagun Aygun

1982

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George E. Groleau

1986

Seth D. Rosen

1989

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1990

Martin I. Passen

1999

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1936

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1938

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 Florence Gottdiener

1939

Elizabeth B. Cannon-Hall

1941

Gene A. Croce

1943D

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 Cliff Ratliff Jr.

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 Jose M. Torres-Gomez
 Robert E. Wise

1945

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 William A. Holbrook
 Leonard T. Kurland
 Daniel B. Lemen
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1946

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1948

John R. Hankins

1949

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1951

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1952

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1955

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 Joseph W. Cavallaro
 Henry A. Diederichs

1956

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1957

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 Landon Clarke Stout

1958

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Tuanh Tonnu

1993

Kathryn M. Connor

1996

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Michele Cooper
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1997

Rachel Kramer
Andrew Ward Morton

1998

David Chiu
Otha Myles

1999

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Number of Donors: 1
Participation: 33.33%
Total Contributions: \$100.00
Average Gift: \$100.00

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1935

Number of Donors: 1
Participation: 33.33%
Total Contributions: \$200.00
Average Gift: \$200.00

Harold W. Rosenberg

1936

Number of Donors: 1
Participation: 16.67%
Total Contributions: \$100.00
Average Gift: \$100.00

Morris J. Nicholson

1937

Number of Donors: 1
Participation: 50%
Total Contributions: \$250.00
Average Gift: \$250.00

Lawrence Perlman

1938

Number of Donors: 3
Participation: 50%
Total Contributions: \$1,675.00
Average Gift: \$558.33

Joseph M. George Jr.
W. Lehman Guyton Jr.
H. Leonard Warren

1939

Number of Donors: 2
Participation: 40.00%
Total Contributions: \$1,050.00
Average Gift: \$525.00

Elizabeth B. Cannon-Hall
Oscar Hartman

1940

Number of Donors: 1
Participation: 14.29%
Total Contributions: \$300.00
Average Gift: \$300.00

Leonard Posner

1941

Number of Donors: 3
Participation: 37.50%
Total Contributions: \$175.00
Average Gift: \$58.33

Franklin E. Leslie

Raymond N. Malout
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1943[D]

Number of Donors: 7
Participation: 41.18%
Total Contributions: \$1,725.00
Average Gift: \$246.43

Joseph Wm. Bitsack
Frederick B. Brandt
Augustus H. Frye Jr.
J. Roy Guyther
William M. Harris
Luis M. Isales
Elizabeth Acton Karns

1943[M]

Number of Donors: 5
Participation: 38.46%
Total Contributions: \$950.00
Average Gift: \$190.00

Ralph K. Brooks
Harry Cohen
David B. Gray
Irving J. Taylor
Robert E. Wise

1944

Number of Donors: 6
Participation: 35.29%
Total Contributions: \$5,650.00
Average Gift: \$941.67

Warren D. Brill
Philip H. Lerman
Sarah Taylor Morrow
William W. Osborne
Michael R. Ramundo
E. Burl Randolph

1945

Number of Donors: 9
Participation: 42.86%
Total Contributions: \$5,232.00
Average Gift: \$581.33

Benjamin Berdann
Robert F. Byrne
Mary Dorcas Clark
John M. Dennis
Austin E. Givens
Daniel B. Lemen
Henry F. Maguire
Stanley R. Steinbach
O. P. Winslow Jr.

1946

Number of Donors: 14
Participation: 43.75%
Total Contributions: \$3,975.00
Average Gift: \$283.93

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Alfred D. Bonifant

Louise P. Buckner
Sidney G. Clyman
Francis I. Codd
Guy K. Driggs
Joseph S. Fischer
Samuel D. Gaby
John R. Gamble
Abraham A. Goetz
Charles W. Hawkins
John C. Rawlins
Clinton W. Stallard Jr.
James A. Vaughn Jr.

1947

Number of Donors: 15
Participation: 45.45%
Total Contributions: \$2,785.00
Average Gift: \$185.67

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B. Stanley Cohen
Irvin H. Cohen
Robert C. Duvall Jr.
Donald E. Fisher
George W. Fisher
David K. Geddes
Robert R. Hahn
Jini Houghton
Anne D. Mattern
Eugene P. Salvati
William H. Stenstrom
Jose G. Valderas
Sydney J. Venable
John P. White

1948

Number of Donors: 14
Participation: 42.42%
Total Contributions: \$3,060.00
Average Gift: \$218.57

A. Andrew Alecce
James Bisanar
Elisabeth McCauley Brumback
Leonard H. Golombek
R. H. Kaufman
Charles H. Lithgow
Albert M. Powell
Benson C. Schwartz
John R. Shell
Benjamin K. Silverman
Phyllis P. Vaughn
H. G. Walters Jr.
James T. Welborn
John D. Wilson

1949

Number of Donors: 11
Participation: 34.48%
Total Contributions: \$3,950.00
Average Gift: \$359.00

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George W. Knabe Jr.
Howard F. Raskin
C. Burns Roehrig
Robert R. Rosen
Jordan M. Scher

Nathan Schnaper
John A. Spittell Jr.
Edward W. Stevenson
John F. Strahan
Russell M. Tilley Jr.

1950

Number of Donors: 21
Participation: 58.33%
Total Contributions: \$8,309.50
Average Gift: \$395.69

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Mary V. M. Barstow
H. H. Bleecker Jr.
L. Guy Chelton
Jerome J. Collier
Thomas N. Corpening
Joseph Robert Cowen
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Elizabeth Stockly
Robert T. Thibadeau
Bate C. Toms
Clifford E. Wilson
Harriet H. Wooten
William H. Yeager

1951

Number of Donors: 11
Participation: 30.56%
Total Contributions: \$7,050.00
Average Gift: \$640.91

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Nancy B. Geiler
Benjamin D. Gordon
David M. Kipnis
Harry L. Knipp
Henry D. Perry
Marvin J. Rombro
Armando Saavedra
John T. Scully
S. Norman Sherry
Homer L. Twigg Jr.

1952

Number of Donors: 29
Participation: 65.91%
Total Contributions: \$37,541.00
Average Gift: \$1,294.52

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Richard E. Ahlquist Jr.
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David R. Taddal
Bryan P. Warren Jr.
Howard N. Weeks
Donald A. Wolfel

1953

Number of Donors: 22
Participation: 48.89%
Total Contributions: \$15,410.00
Average Gift: \$700.45

Scott B. Berkeley Jr.
Robert Berkow
Joseph R. Bove
Thomas J. Burkart
Walter H. Byerly
Charles F. Carroll Jr.
Harry L. Eye
John W. Heisse
Thomas F. Herbert
Charles F. Hess
William L. Holder
Werner E. Kaese
Capt. Robert Kingsbury
William S. Kiser
Benjamin Lee
Herbert Leighton
Ratael Longo
John W. Metcalf
James E. Might
Richard E. Schindler
Robert T. Singleton
Joel S. Webster

1954

Number of Donors: 34
Participation: 60.71%
Total Contributions: \$8,650.00
Average Gift: \$254.41

Arthur Butch
George Bauernschub
Anthony A. Bernardo
Edwin H. T. Besson
Herbert L. Blumentfeld
Stuart M. Brown
Efram A. Detendini
Robert H. Ellis
Charles T. Fitch
Norman Forrest
Daniel H. Framm
Charles J. Hammer Jr.
James W. Hayes
Thomas E. Hunt Jr.

Honor Roll 2010

Richard A. Jones
Edward S. Klohr Jr.
Herbert J. Levin
Hilbert M. Levine
David A. Levy
Moses L. Nafzinger
Gerald F. Nangle
Joseph J. Noya
Jean M. C. O'Connor
David H. Patten
Miguel Perez-Arzoia
Morris Ramess
Jean B. Smith
Thorlief L. Stangebye
James H. Teeter
Ira N. Tublin
George Wall
Arthur V. Whittaker
Willard O. Wild
Robert E. Yim

1955

Number of Donors: 25
Participation: 45.45 %
Total Contributions: \$11,813.40
Average Gift: \$472.54

Otto C. Beyer
Roderick E. Charles
James M. Close
Everard F. Cox
John J. Darrell
Donald H. Dembo
William Dvorine
John A. Engers
Vernon M. Gelhaus
Henry Booth Higman
William Hollister Jr.
Paul C. Hudson
Walter E. James
Murray M. Kappelman
William P. Keefe
C. Ronald Koons
Mort D. Kramer
Violet S. Kron
William F. Krone Jr.
Richard F. Leighton
Leonard J. Morse
Paul G. Mueller
Frank R. Nataro
George N. Polis
Albert M. Sax

1956

Number of Donors: 33
Participation: 52.38%
Total Contributions: \$12,294.83
Average Gift: \$372.57

Robert T. Adkins
Theodore R. Carski
Thomas H. Collawn
Ludwig J. Eglseder Jr.
Edward D. Frohlich
J. Henry Hawkins
Robert N. Headley
Webb S. Hersperger
Gilbert E. Hurwitz
Albert V. Kanner
C. Herschel King
Louis J. Lancaster
Joseph G. Lanzi
Mathew H. M. Lee
Gerald N. Maggid

Robert J. Mahon
Herbert M. Marton
Joseph S. McLaughlin
John F. Nowell
Clark Lamont Osteen
Marvin S. Platt
Richard L. Plumb
Irvin P. Pollack
G. Edward Reahl Jr.
Harold I. Rodman
Charles Sanslow
Roy O. Shaub
Virginia T. Sherr
W. A. Sinton Jr.
Paul V. Slater
George A. Sowell
John Z. Williams
Harry D. Wilson Jr.

1957

Number of Donors: 38
Participation: 45.16%
Total Contributions: \$21,007.00
Average Gift: \$750.25

Charles Allen
Marvin S. Arons
James K. Bouzoukis
Mary C. Burchell
Harvey R. Butt Jr.
Anthony J. Calciano
Joseph O. Dean Jr.
Mary Stang Furth
Sebastian J. Gallo
Nicholas Garcia
Allen S. Gerber
Paul K. Hanashiro
William F. Kennedy Jr.
James P. Laster
Joseph C. Laughlin
George A. Lentz
Frank J. Macek
Paul A. Mullan
Herbert H. Nasdor
Charles R. Oppgaard
Frederick W. Plugge IV
George W. Rever
Howard S. Siegel
Landon Clarke Stout
Nevins W. Todd Jr.
Michael S. Trupp
Ray A. Wilson
Leonard M. Zullo

1958

Number of Donors: 27
Participation: 47.37%
Total Contributions: \$8,840.00
Average Gift: \$327.41

James K. Aton
George R. Baumgardner
Stuart H. Brager
H. D. Bronstein
Gaylord Lee Clark
Robert E. Cranley Jr.
Bruce N. Curtis
Gilbert B. Cushman
Ronald L. Diener
Stanley N. Farb
Harvey L. Friedlander
Frank P. Greene
Meredith S. Hale

Honor Roll

Albert F. Heck
William J. Hicken
Robert H. Johnson Jr.
Richard H. Keller
Howard S. Levin
Arthur Litofsky
G. T. McInerney
Joseph A. Mead Jr.
Ernest E. Moore
Lewis H. Richmond
Charles E. Silberstein
Jerome Tilles
James H. Tyer
William T. Ward

1959

Number of Donors: 28
Participation: 51.85%
Total Contributions: \$11,150.00
Average Gift: \$398.21

Gerson Asrael
William N. Cohen
John W. Coursey
Joseph L. Darr
Robert J. Dawson
W. F. Falls Jr.
Franklin A. Hanauer
August D. King Jr.
Marvin M. Kirsh
Martin S. Kleinman
Richard C. Lang
Donald R. Lewis
Ferdinand G. Mainolfi
Jose Oscar Morales
J. Rollin Otto
Nicholas A. Pace
Arthur L. Poffenbarger
William E. Rhea
Ramon F. Roig Jr.
Howard J. Rubenstein
C. Edmund Rybczynski
Daniel S. Sax
Arthur A. Serpick
Stanley N. Snyder
Beverly J. Stump
Robert J. Thomas
George S. Trotter
Hans R. Wilhelmssen

1960

Number of Donors: 41
Participation: 64.06 %
Total Contributions: \$31,605.50
Average Gift: \$770.86

Aristides C. Alevizatos
Lawrence F. Awalt
Leonard P. Berger
Arnold Brenner
Louis M. Damiano
Paul A. DeVore
Michael J. Fellner
Julio E. Figueroa
Alvin Glass
I. William Grossman
Wilson A. Heetner
C. Earl Hill
Charles R. Kesmodel
Ronald E. Keyser
William E. Latimer
Richard C. Lavy
Michael H. Leakan
John C. Morton
Allen R. Myers
Jerrod Normanly

Fortune Odendhal IV
Selvin Passen
Morton I. Rapoport
Jerome M. Reed
Neil A. Robinson
Clinton L. Rogers
Jerome Ross
Robert P. Sarni
Elijah Saunders
Jonas A. Shulman
Bernice Sigman
Emanuel H. Silverstein
George I. Smith Jr.
Morton E. Smith
W. E. Standiford
Martha E. Stauffer
Nathan Stofberg
John R. Stram
Merrill T. Syphus
Michael S. Tennen
Theodore Zanker

1961

Number of Donors: 24
Participation: 35.29%
Total Contributions: \$8,455.00
Average Gift: \$352.29

James R. Appleton
George E. Bandy
Oscar H. L. Bing
M. Barry Blum
Anthony R. Boccuti
Milton H. Buschman
Ronald L. Cain
Robert A. Fink
Jay S. Goodman
Ronald L. Gutberlet
Samuel H. Henck
Gerald A. Hotkin
Carlos E. Itarraguerri
Gerald C. Kempthorne
John P. Light
David E. Litrenta
Roger Lee Mehl
Robert J. Myerburg
Michael B. A. Oldstone
David L. Rosen
Richard M. Sarles
Richard F. Schillaci
Thomas M. Sonn
Arthur Wolpert

1962

Number of Donors: 31
Participation: 40.79%
Total Contributions: \$9,994.57
Average Gift: \$322.41

Raymond D. Bahr
J. Fred Baker
C. Gottfried Baumann
Merrill I. Berman
Louis C. Breschi
Bruce D. Broughton
Jon B. Closson
Hammond J. Dugan III
Paul G. Ensor
Frederick S. Felsner
Leonard J. Figelman
Herbert Gaither
I. F. Hawkins Jr.
William T. Johnstone
Bernard S. Karpers
Stephen H. Kaufman
S. A. Klatsky
Paul A. Kohlhepp
Melvin D. Kopilnick
Alan B. Lachman
Johnson Ling
Kenneth P. Malan
David G. Musgjerd
Ted C. Patterson
Donald David Pet
Phyllis K. Pullen
W. H. Sotheron Jr.
R. R. Stephenson
Arthur W. Traum
Ralph E. Updike
William H. Wood Jr.

1963

Number of Donors: 35
Participation: 50.72%
Total Contributions: \$17,910.00
Average Gift: \$511.71

Robert M. Beazley
Harold J. Campbell
Nijole B. Carozza
Stephen P. Cohen
Peter C. Fuchs
Leland M. Garrison
B. Robert Giangrandi
Donald H. Gilden
Richard L. Goldman
Claude A. Harvey
Michael G. Hayes
Alice B. Heisler
D. Robert Hess Jr.
William H. Howard
Thomas V. Inglesby
Arnold J. Jules
Paul F. Kaminski
William A. King
Merrill M. Knopf
Michael L. Levin
Eric E. Lindstrom

Classes with the Highest Percentage of Donors

1952	65.91%
1960	64.06%
1954	60.71%
1950	58.33%
1956	52.38%

Honor Roll

Kennerth G. Magee
Barbara A. McLean
Stanley L. Minken
H. Gerald Oster
Neal J. Prendergast
Horace T. Ray
Hector Rodriguez-Fernandez
Mayer Schwartz
Alice M. S. Shannon
Mitchell C. Sollod
Frank J. Trivisano
Edward C. Werner
Joseph R. Wilson
Aron Wolf

1964

Number of Donors: 31
Participation: 45.59%
Total Contributions: \$7,635.00
Average Gift: \$246.29

Sigmund A. Amitin
Michael N. Ashman
L. Bradley Baker
Larry Becker
Miriam L. Cohen
Donald A. Deinlein
Robert L. Dingell
Lee E. Gresser
Euclid H. Jones
Rosalind P. Kaplan
Ellen Ann Kingsbury
Mark E. Krugman
Donald T. Lewers
D. V. Lindenstruth
Ruth E. Luddy
Edgar V. McConley
M. S. Michaelis
Joel S. Mindel
Samuel Muher
David M. Nichols Jr.
Thomas J. Porter
Jose D. Quinones
Jerome P. Reichmister
Allen D. Schwartz
William E. Schwartz
Perry S. Shelton
Richard G. Shugarman
Lawrence F. Solomon
Robert E. Stoner
Jonathan D. Tuerk
John K. Weagly

1965

Number of Donors: 32
Participation: 40.51%
Total Contributions: \$13,687.00
Average Gift: \$427.72

Brian J. Baldwin
Bruce A. Brian
Jeffrey L. Brown
Larry C. Chong
John C. Dumlér Jr.
Allen A. Frey
Ronald Goldner
William M. Gould
R. L. Handwerker
David R. Harris
Charles S. Harrison
Frederick S. Herold
John C. Hisley
Allen H. Judman
Allan S. Land
Susan H. Mather

John W. Maun
Louis O. Olsen
George Peters
Jeffrey E. Pooley
Donald Cornelius Roome
Alfred B. Rosenstein
S. L. Sattenspiel
G. C. Sjölund Jr.
Larry A. Snyder
Hannah J. Solky
Louis E. Steinberg
Fred N. Sugar
Harry Tabor
Elliot S. Tokar
Philip Joseph Whelan
Ann Robinson Wilke

1966

Number of Donors: 46
Participation: 46.00%
Total Contributions: \$156,379.20
Average Gift: \$3,399.55

Diane L. K. Acker
Jay Martin Barrash
Arnold S. Blaustein
Mark J. Brown
Michael P. Buchness
Charles H. Classen
Henry S. Crist
Philip B. Dvoskin
William D. Errag
Stuart L. Fine
Richard L. Flax
Dwight N. Fortier
J. M. France Jr.
George E. Gallahorn
Richard S. Glass
Dennis H. Gordon
Stephen F. Gordon
Dean H. Griffin
Michael J. Haney
William O. Harrison
J. M. Hawkins Jr.
Thomas M. Hill
Elizabeth C. Hosick
Larry T. Ingle
Ronald H. Koenig
Joel A. Krackow
Robert E. Leibowitz
Stephen Machiz
Joseph B. Marcus
William J. Marek
William T. Mason
Jane C. McCaffrey
Allan J. Monfried
Carl J. Orfuss
Gary D. Plotnick
C. Downey Price
James A. Quinlan
Dudley Allen Raine Jr.
Alfred A. Serritella
Richard D. Shuger
Irvin M. Sopher
James W. Spence
Jeffrey S. Stier
Henry L. Trattler
Robert R. Young
Stuart H. Yuspa

1967

Number of Donors: 39
Participation: 42.39%
Total Contributions: \$15,405.00
Average Gift: \$395.00

Elizabeth A. Abel
John A. Bigbee
William L. Boddie
Colvin C. Carter
Gerard D. Dobrzycki
Francis D. Drake
Harris J. Feldman
Henry Feuer
Robert O. France
John Wm. Gareis
Joseph S. Gimbel
David M. Hadden
James L. Hamby
Arthur L. Hughes
John S. Ignatowski
Michael A. Kaliner
Eugene F. Kester
George A. Lapes
Gary M. Lattin
Stuart H. Lessans
Sheldon L. Markowitz
David S. McHold
Alan H. Mitnick
Boyd D. Myers
Fred R. Nelson
A. Z. Paritzky
Jean Posner
Allan S. Pristoop
Ralph D. Reymond
John F. Rogers
John C. Sewell
Michael L. Sherman
David M. Snyder
Robert A. Sofferman
Joseph I. Stapen
John R. Stephens
Kenneth B. Stern
Larry J. Warner
Allan M. Wexler

1968

Number of Donors: 41
Participation: 37.96%
Total Contributions: \$16,715.00
Average Gift: \$407.68

Willard P. Amoss
Richard A. Baum
Sheldon B. Bearman
Michael W. Benenson
Barry A. Blum
Morton B. Blumberg
Robert Brull
Joseph F. Callaghan Jr.
Elliot S. Cohen
Allen C. Eglott
Kenneth E. Fligsten
Frank A. Franklin
John G. Fritzer
John D. Gelin
Ronald S. Glick
Jack R. Groover
Stephen L. Hooper
James G. Kane
George M. Knefelý Jr.
Gordon L. Levin
Abraham A. Litt
Philip Littman
Stanford H. Malinow
Karl F. Mech Jr.
H. E. Mendelsohn
Anthony L. Merlis
Bruce L. Miller
Joel Wm. Renbaum
David J. Riley
Rorick T. Rimash

Classes with the Highest Average Gifts

1966	\$3,399
1952	\$1,294
1978	\$1,011
1944	\$941
1960	\$770

Stephen D. Rosenbaum
Charles S. Samorodin
Barry J. Schlossberg
Burton G. Schontfeld
Howard Semins
Michael J. Shack
Wilfred B. Stauter
Alice Susan Tannenbaum
Stanley R. Weimer
Stuart Winakur
Edward J. Young

1969

Number of Donors: 44
Participation: 36.84%
Total Contributions: \$21,380.00
Average Gift: \$485.90

Mark M. Applefeld
Edward E. Aston IV
J. O. Ballard III
Emile A. Bendit
Barry B. Bercu
Roberta M. Braun
Stan Brull
Donald Wm. Bryan
Edward A. Carter
Paul J. Connors
Leonard D. Cutler
Howard A. Davidov
Richard E. Fisher
Donna L. Gibbs
Graham Gilmer III
Samuel D. Goldberg
Roy R. Goodman
Marvin J. Gordon
Constance L. Holbrook
Anne S. Jacques
Mark D. Kappelman
Reynold M. Karr
Ronald A. Katz
Felix L. Kaufman
Daniel J. Ladd
C. W. McCluggage
John R. McCormick
Arthur V. Milholland
Edwin E. Mohler
Wayne H. Parris
Frederick N. Pearson
Robert W. Phillips
Barbara E. Phillips-Seitz
Harry Rabinovich
Brian S. Saunders
Ronald L. Schneider
W. Winslow Schrank
John W. Shatter
William I. Smulyan
David H. Snyder
David A. Solomon

Kristin Stueber
Kenneth C. Ullman
Haven N. Wall Jr.

1970

Number of Donors: 45
Participation: 39.29%
Total Contributions: \$22,166.00
Average Gift: \$492.58

Willie A. Andersen
Arthur O. Anderson
Alva S. Baker
David H. Berkeley
David H. Berman
Martin Braun
John P. Caulfield
Leo A. Courtney III
Dwight E. Cramer
Joseph H. Cunningham Jr.
Donald D. Douglas
A. Stephen Dubansky
Joseph N. Friend
Julian A. Gordon
Michael A. Grasso
Stephen B. Greenberg
William D. Hakkarinen
Louis S. Halkman
Lin H. Ho
Kenneth M. Hoffman
Dennis J. Hurwitz
Michael Kilham
Donald L. Leiss
Mark B. Levinson
Henry A. Lewis
Philip A. Mackowiak
C. B. Marek, Jr.
John P. McCarthy
Joseph P. Michalski
Thomas P. Miles
James S. Murphy
David A. Perry
Leslie P. Plotnick
R. B. Pollard, Jr.
Gerald M. Rehert
Walker L. Robinson
Robert F. Sarlin
Louis A. Shpritz
Gregory T. Sobczak
Ronald J. Stanfield
William A. Warren
Arthur M. Warwick
Charles I. Weiner
Robert I. White
S. M. Zaborowski

Honor Roll 2010

1971

Number of Donors: 30
Participation: 26.55%
Total Contributions: \$7,710.00
Average Gift: \$257.00

Peter W. Beall
Richard A. Bordow
George H. Brouillet
Ronald Paul Byank
Michael R. Camp
Larry I. Corman
Steven A. Feig
Burton J. Glass
Robert B. Grethner
C. F. Hobelmann Jr.
Gwynne L. Horwitz
T. N. Jarrell III
Jerald Kay
Wallace M. Kowalczyk
John B. Kramer
William R. Lanthicum
Jack S. Lissauer
Michael J. Maloney
R. M. Mentzer
R. Henry Richards
Donald M. Rocklin
Paul T. Rogers
Henry G. Sacks
JoAnn C. C. Santos
Michael J. Schultz
Robert E. Sharrock
Panayiotis L. Sitaras
Kerry J. Thompson
Robert H. Weinfeld
C. T. Woolsey Jr.

1972

Number of Donors: 39
Participation: 30.23%
Total Contributions: \$14,784.00
Average Gift: \$379.08

Barbara Rosenthal Adler
Robert J. Bauer
Roy C. Blank
John W. Blotzer
Elizabeth R. Brown
Howard Caplan
Walter H. Dorinan
C. Thomas Folkemer
Darryl J. Gartinkel
Michael E. Golembieski
Roger L. Gordon
Robert B. Grossman
Neil B. Kappelman
Jeffrey J. Kline
Richard B. Kline
Mark J. LeVine
Deborah Brandchaft Matro
George A. Metzger
Stanley A. Morrison
Joseph D. Moser
John A. Niziol
John M. O'Day
Martin S. Rosenthal
Charles J. Schleupner
John E. Seibel Jr.
Richard H. Sherman
Gerard V. Smith
H. Hershey Sollo
Thomas J. Toner Jr.
Peter D. Vash

Dean L. Vassar
Jerald P. Waldman
Eliot M. Wallack
Howard J. Weinstein
Robert B. Whitney
Thomas V. Whitten
Brian J. Winter
Celeste L. Woodward
Edgardo L. Yordan Jr.

1973

Number of Donors: 46
Participation: 38.66%
Total Contributions: \$18,870.00
Average Gift: \$410.22

Bruce L. Beck
Jeffrey C. Blum
Thomas Calame
J. A. Ciotola, Jr.
Charles R. Clark
W. Edwin Conner
Edwin A. Deitch
Michael J. Dodd
Steven H. Dolinsky
Edward M. Eisenbrey
Jean M. Eisenbrey
William R. Gaver
Nelson H. Goldberg
David A. Goldscher
David J. Grethner
Daniel C. Hardesty
Louis E. Harman III
David E. Herman
David L. Hoover
Mark Jacobs
Michael F. Jaworski
Erich Kim
Walter B. Koppel
Merric D. Landy
Jeffrey S. Lobel
Denis Wm. MacDonald
Samuel V. Mace
Anthony F. Malone
Thomas E. Mansfield
A. Robert Masten
Elizabeth Feeney Masten
Christopher S. Michel
Clarence D. Miller
Alfred J. Saah
Howard I. Saiontz
Ronald A. Seff
Gregory B. Shankman
Ronald F. Sher
Robert B. Stiller
Ira M. Stone
Ronald J. Taylor
Harold Tucker
Roberta S. Tucker
Charles B. Watson
Richard M. Weisman
Alan L. Whitney

1974

Number of Donors: 42
Participation: 31.54%
Total Contributions: \$9,972.00
Average Gift: \$237.42

Samuel I. Benesh
Lynn M. Billingsley
Jeffrey P. Block
Richard A. Block

Honor Roll

Alan L. Carroll
James G. Chaconas
R. P. Christianson
Thomas C. Doerner
Stephen B. Fleishman
Daniel K. Foss
Alan E. Gober
Edward S. Gratz
Robert M. Guthrie
Charles A. Haile
James F. Hatch
Charles M. Jaffe
Ronald Kaplan
Laslo E. Kolta

Carole S. Kornreich
Howard G. Lanham
Merril B. Lewis
Stephen R. Matz
Terrance P. McHugh
James Jay McMillen
Stephen E. Metzner
Joel B. Miller
Sheldon D. Milner
Susan R. Panny
Jeffrey Pargament
Edward L. Perl
Jay A. Phillips
Clayton L. Raab
James M. Raver
Sue V. Raver
June K. Robinson
Susan Kosnik Ross
Edward N. Sherman
Elise W. Van der Jagt
Steven A. Vogel
Stephen N. Xenakis
Allen C. Zechow
David L. Zisow

1975

Number of Donors: 42
Participation: 32.56%
Total Contributions: \$19,605.00
Average Gift: \$466.79

Charles E. Andrews
James L. Atkins
Linda S. Bartram
Robert J. Beach
John F. Biedlingmaier
Jonathan D. Book
James Joa Campbell
Karl W. Diehn
L. Thomas Divilio
Patricia Falcao
Louis Fox
Albin W. Harris
Charles F. Hoesch
Dorothy Shih Yi Hsiao
Brian S. Kahntroff
M. C. Kowalewski
Thomas F. Krajewski
Mary Lou Kramer
Thom E. Lobe
W. Peter Marwede
Scott M. McCloskey
Jeffrey L. Metzner
Edward M. Miller
Parry A. Moore
Frank H. Morris
Nicolette Orlando-Morris
Harvey B. Pats
Stephen H. Pollock
Jeffrey L. Quartner
Sandra D. L. Quartner
Robert E. Roby

John W. Rose
Andrew B. Rudo
James H. Somerville
Ronald J. Spector
Michael B. Stewart
George A. Taler
Richard L. Taylor
Robert A. Vegors
Lisa M. Walker
Michael E. Weinblatt
John L. Young

1976

Number of Donors: 45
Participation: 31.25%
Total Contributions: \$13,190.00
Average Gift: \$293.11

Timothy E. Batnum
Steven M. Berlin
Damian E. Birchess
John W. Bowie
Janet F. Brown
William G. Brown
Michael E. Cox
Vincent W. DeLaGarza
Phillip M. Dennis
Suzanne Ray Dixon
Edward F. Driscoll
Christopher Feiterek
Ellen B. Feiterek
William G. Flowers
Barry I. Ginsberg
D. Stewart Ginsberg
Allan S. Gold
Gary M. Jacobs
Patricia D. Kellogg
Jacqueline Kelly
Harry Clarke Knupp
Barry K. Levin
Dorothy K. MacFarlane
James E. Mark
Eva H. B. McCullars
Arnold B. Merin
James S. Novick
W. Bruce Obenshain
Gary P. Posner
Gerald M. Rosen
M. H. Rubenstein
William F. Ruppel
Bruce A. Silver
Gary L. Simon
Lee S. Simon
James W. Srou
William B. Tauber
Joseph R. Tiralla
Deborah F. Weber
Sherry L. Werner

Joan E. Whitehouse Gible
Susan M. Willard
Pamela A. Wilson
Benjamin K. Yorkoff
Robert G. Zeller

1977

Number of Donors: 52
Participation: 33.12%
Total Contributions: \$16,500.00
Average Gift: \$317.31

Katherine Ackerman
Michael F. Adinolfi
Stuart B. Bell
Michael P. Bey
Marc S. Bresler
Elwood A. Cobey
William Joseph Dichtel
Willarda V. Edwards
Rona B. Eisen
Frederic T. Farra
James Feld
Richard J. Feldman
Robert T. Fisher
Donna L. Frankel
Samuel D. Friedel
Linda L. George
Alan S. Gertler
Doris S. Gertler
Anne C. Goldberg
Neil D. Goldberg
Norman Harris
Marlene T. Hayman
Martin I. Herman
Dahlia R. Hirsch
Christopher F. James
Ronald L. Kahn
Sheldon H. Lerman
Eva Magiros
Gregory L. Marrocco
Judith A. Maslar
Paul A. McClelland
Ellis Mez
John P. Miller, III
Edward B. Mishner
Coleman A. Mosley
Paul A. Ofrit
Gerald P. Perman
Steven H. Resnick
Garry D. Ruben
Michael S. Sellman
Richard B. Silver
Bruce H. Sindler
Steven G. Steinberg
Clyde A. Strang
David Strobel
Michelle D. Uhl

Classes with Most Davidge Alliance Members

1975	30
1970	20
1960	19
1973	18
1956	17
1980	17

Honor Roll

Jonathan R. Walburn
Bennett E. Werner
Katherine C. White
Barry A. Wohl
Richard J. Zangara
Stephen M. Zemel

1978

Number of Donors: 49
Participation: 29.70%
Total Contributions: \$49,586.00
Average Gift: \$1,011.96

Philip A. Ades
Robert E. Applebaum
Susanne S. Ashton
Charles Wm. Bennett
Steven Billet
Edward N. Bodurian
Howard Boltansky
David E. Cohen
Ira J. Kahs Cohen
Louis J. Domenici
Franklin M. Douglas
Ian S. Elliot
John L. Fiore

Ellen L. Taylor
Lorne G. Tompkins
Robin M. Ulanow
Stephen A. Valenti
Neil E. Warren
Bruce E. Weneck

1979

Number of Donors: 33
Participation: 19.63%
Total Contributions: \$14,365.40
Average Gift: \$435.31

Arthur E. Bakal
Karen C. Carroll
Burt I. Feldman
Christopher S. Formal
Scott D. Friedman
Jeffrey D. Gaber
Leon W. Gible
Peter E. Godfrey
Charles I. Highstein
Jan M. Hoffman
Michael E. Hull
James W. Karesch
Bruce D. Koehler

Louis M. Bell Jr.
Gwendolyn Wigand Bolling
Myles D. Briger
Terence D. Campbell
Wayne E. Cascio
Jane L. Chen
Joseph P. Crawford
Kirk D. Cylis
Dale K. Dedrick
Craig A. Dickman
Paul E. Driscoll
Judith Falloon
James F. Fiastro
Milford Mace Foxwell
Cathy Powers Friedman
Vincent W. Gatto
Grace K. Gelletly
Alan I. Gelman
Deborah L. Gofreed
Andrew L. Goldberg
Marcia P. Goldmark
Peter J. Golueke
Lee J. Helman
Dena R. Hixon
Marian F. Kellner
Michael R. Kessler
James C. King Jr.
Jeffrey A. Kleiman
David S. Klein
Susan L. Laessig
Anne D. Lane
Charles E. Lee
Mark D. Leeson
John R. Livengood
Teri A. Manolio
Richard A. Marasa
Karen J. Marcus
John N. Margolis
David J. Markowitz
Margaret E. McCahill
Timothy P. McLaughlin
Steven M. Miller
Judah A. Minkove
Thomas P. Moran
William J. Oktavec
Keith D. Osborn
David L. Otto
Russell K. Portenoy
Michael F. Pratt
James P. Richardson
Roger J. Robertson
W. Michael Rogers
Robert L. Schiff
Kenneth H. C. Silver
Roy T. Smoot Jr.
Victoria W. Smoot
Sally E. Sondergaard
Charles S. Specht
H. H. Startzman III
Henry W. Sundermier
Phuong D. Trinh
Eric V. Van Buskirk
Charles A. Wilkes

1982

Number of Donors: 43
Participation: 25.00%
Total Contributions: \$11,140.00
Average Gift: \$259.07

Christopher M. Aland
Pedro P. Arrabal
Wayne L. Barber
David C. Barnes
Kenneth A. Blank
Clark Brill
Paul S. Brockman
Robert F. Carr
Charles Carroll
Ronald F. Christianson
Joseph P. Connelly Jr.
Thomas W. Conway
Robert M. Cooper
Cynthia L. Costenbader
John M. DiGrazia
Rebecca Elmaleh
Robert J. Fadden
Patrick F. Gartland
Warren Gibbs
George E. Groleau
J. Philip Hall
C. William Hicks III
Constance J. Johnson
Bruce A. Kaup
Darryl B. Kurland
Carole R. Lerman
Gary M. Levine
James W. Miller II
Jonathan Lee Miller
Paul R. Miller
Andrew V. Panagos
Steven H. Parker

1981

Number of Donors: 41
Participation: 24.40%
Total Contributions: \$11,745.99
Average Gift: \$286.49

Peter M. Barker
James M. Carlton
Linda L. Chambers
Alice Wagner Condoro
Maura K. Dollymore

Kevin J. Fogle
Paula Ehrlich
Daniel P. Ferrick
Frederick G. Flaccavento
Neal M. Friedlander
Michelle Gelkin
Samuel C. Gold
Hope U. Griffin
Howard T. Jacobs
Marc A. Jaffe
Brian H. Kahn
Karen R. Kingry
Mark C. Lakshmanan
Andrew M. Malmow
Gordon L. Mandell
Carol S. Marshall
Samuel O. Matz
Scott T. Maurer
Paul E. Mullen, II
Kathryn M. Neuman-Rudo
Marc Okun
Stephen Ozanne
James L. Pertsch
Brien E. Pierpont
Alan R. Pollack
Deborah R. Pollack
Donna L. Rinis
Howard N. Robinson
Lauren A. Schnaper
Howard L. Siegel
Samuel Smith
Carl Sperling
Rebecca Tominack
Brian W. Wamsley
Samuel A. Yousem
Laurie T. Zimmerman

Daniel M. Perlman
Robert E. Perry
Ralph T. Salvagno
Thomas A. Samaras
Jerry B. Schwartz
Marc H. Siegelbaum
Ellen A. Spurrier Coughlin
Laura L. Stephenson
Jennifer S. Tseng
Corina J. Waldman
David L. Waxman

1983

Number of Donors: 49
Participation: 29.09%
Total Contributions: \$16,795.00
Average Gift: \$342.75

Margaret C. Adams
E. Allan Atwell
Jeffrey J. Bernstein
George M. Boyer
Brenda M. Brandon
Harry A. Brandt
Peter G. Brassard
Monica A. Buescher
Michael A. Caplin
Blaise Chromiak
Craig E. Collins
Protagoras N. Cutchis
Stephen W. Dejer Jr.
Joyce Evans
Neil B. Friedman
Gerard J. Fulda
George Thomas Grace
James D. Herr
Thomas R. Hornick
Harry Huo-tsin Huang
David P. Johnson
Mary Jo Johnson
Roy A. Kottal
Steve Laverson
Jeffrey K. Moore
Denis J. O'Fallon
Harry A. Oken
Nancy Prosser
Mark E. Richards
Brian E. Robinson
Marc S. Rocklin
William G. Rudolph
Ronald N. Sakamoto
Sonia M. Saracco
Jeannine L. Saunders
Frederick W. Schaert
David J. Schamp
Ronald H. Schuster
Eric W. Scott
James R. Sides
Milton S. Smadach Jr.
Alfred D. Sparks
James D. Spiegel
Victoria A. Vanik
Margaret M. Vaughan
Robert E. Walker
Emmanuel B. Welter Jr.
Janet E. Williams
Robert V. Zawodny

1984

Number of Donors: 40
Participation: 24.24%
Total Contributions: \$14,000.00
Average Gift: \$350.00

Classes with the Highest Gift Totals

1966	\$156,379
1978	\$49,586
1980	\$38,280
1952	\$37,541
1960	\$31,605

Andrew Paul Fridberg
Marianne N. Fridberg
Phyllis L. Greenwald
Richard A. Gruen
Richard H. Hallock
Charlene F. Horan
M. J. Ichniowski
Sandra S. Isbister
David E. Kelley
Elizabeth M. Kingsley
Alan J. Levin
Mark D. Lisberger
Michael N. Macklin
Gregory D. McCormack
Stephen A. Metz
Jeffrey G. Middleton
Harvey S. Mishner
Royann C. Mraz
David G. Oelberg
Gary C. Prada
Susan E. Prevas
Susan H. Prouty
James F. Rooney
Ronald J. Ross
Lawrence D. Sandler
Simon V. Scalia
Robert S. Shayne
Alex Sokil
Edward Timothy Souweine
John E. Stork

Max D. Koenigsberg
Bernard F. Kozlovsky
Owen Lee
G. S. Malouf Jr.
Bruce C. Marshall
Bruce R. McCurdy
Kathleen H. Miller
Sunday June Pickens
William O. Richards
Peter E. Rork
Bruce Rosenberg
R. Sierra-Zorita
David B. Tapper
Elizabeth L. Tso
Thomas B. Volatile
Harlan F. Weisman
Perri Laverson Wittgrove
A. F. Woodward Jr.
Erik B. Young
Kristen A. Zartos

1980

Number of Donors: 65
Participation: 36.16%
Total Contributions: \$38,280.00
Average Gift: \$588.92

Robert C. Ammlung
Unur M. Atabek

Honor Roll 2010

Rodney Samuel Arthur
Roy F. Bands, Jr.
Donald M. Beckstead
Gail S. Brook
John F. Cary
Ellen S. Deutsch
John R. Downs
Lindsay Golden
Heidi D. Gorsuch
Todd H. Hillman
Thomas E. Jordan
Leslie I. Katzel
William B. Kerns
Theodore Y. Kim
N. W. Koutrelakos
Frederick E. Kuhn
Susan M. Lancelotta
David R. Lee
Brad D. Lerner
Lynn M. Ludmer
Daniel M. Marder
Dale R. Meyer
Carole B. Miller
Vinay M. Nadkarni
R. Matthew Reveille
Paul R. Ringelman
Samuel M. Rosenberg
Isabel S. Rosenbloom
Leroy M. Schmidt
Martin L. Schwartz
Luette S. Semmes
Carmela A. Sofia
Sharon R. Tapper
Robert W. Tarr
Katherine D. Tobin
Helen E. Walker
Jeremy P. Weiner
Mitchell H. Weiss
Christopher J. Zajac
Lawrence A. Zimnoch

1985

Number of Donors: 36
Participation: 21.69%
Total Contributions: \$13,995.00
Average Gift: \$388.75

Ira S. Allen
Nicholas B. Argento
Susan Barrows
Jeffrey D. Benner
Joanna D. Brandt
Peter F. Burns
Randolph C. Cane
Agnes O. Coffay
Allen L. Dollar
Mark J. Ehrenreich
Frederick M. Gessner
Daniel I. Ginsberg
Peter R. Gray
Robert C. Greenwell Jr.
Charles S. Hanes
Sharon M. Henry
Sean E. Hunt
Thomas Bryan Johnson
Jeffrey Jones
Earlene Jordan
Marc A. Kaufman
Rita F. King
Donald R. Lewis Jr.
Victoria Mossman-Van
Eendenburg
Patricia B. Patterson

Michael Platto
David W. Porter
Michael P. Riggelman
Hani C. Sachs
Sharon B. Samuels
S. J. Schoenfelder
Catherine N. Smoot-Haselnus
Laszlo R. Trankovich
H. Von Marensdorff
Katherine L. Whitaker
Stephen P. Yeagle

1986

Number of Donors: 42
Participation: 25.00%
Total Contributions: \$8,980.00
Average Gift: \$213.81

Fouad Mahmoud Abbas
Samuel R. Akman
Marilyn F. Althoff
Stephanie Harris Applebaum
Nathan E. Carnell
Eugenio Roberto Chinae
Steven F. Crawford
Catherine Anne Daum
Katherine Duffy
Stephen Michael Fanto
Scott William Fosko
Raphael Y. Gershon
David L. Gold
Albert Sydney Hammond
Sangwoon Han
Craig D. Hochstein
Kelly Ann Hunter-Fanto
Elizabeth A. Janczur
Karen M. Kabat
Thomas E. Kelly
Lee Allan Kleiman
Jan M. Koppelman
Dennis Kurgansky
Karen Anne Lavoie-Starr
Marion P. Lomonico Jr.
Giles H. Manley
Marsh Randy McEachrane
Scott A. Milsteen
Gregory K. Morrow
Denise Murray
David W. Oldach
Joan Ordman
Toby Ann Ritterhoff
Seth D. Rosen
John F. Rubin
Jonathan S. Schwab
Nadine B. Serner
Asad U. Sheikh
Mark Vogel Smith
Nicholas Visnich
Mark J. Vocci
Julia Ann Williams

1987

Number of Donors: 22
Participation: 15.71%
Total Contributions: \$7,190.00
Average Gift: \$326.82

Susan Goldberg Baruch
Mark D. Bullock
Henry J. Chen
John Gary Evans
Charles Patrick Fitch

Honor Roll

Michael Patrick Flanagan
Heidi L. Frankel
Bruce David Greenwald
Elizabeth Roberta Hatcher
Kevin E. Hohl
Betty Ann Kyser
G. Michael Maresca
Thomas B. Mulford
James Paul Natario
Susan Suholet Nesbitt
Timothy D. Nichols

Kelley Willis Sullivan
Raymond A. Wittstadt
Montford A. Wolf

1989

Number of Donors: 30
Participation: 21.28%
Total Contributions: \$9,305.00
Average Gift: \$310.17

John T. Alexander

Carl E. Gessner
Mary K. Hoffman
Mark A. Mighell
Leigh A. Naughton
Kenneth J. Oken
Martin I. Passen
Helen E. Pillsbury
Michael E. Rauser
Teresa Hoffman Rosen
Kevin G. Seymour
Scott A. Sigman
Philip L. Strauss
Magesh Sundaram
Tuanh Tonnu

1991

Number of Donors: 29
Participation: 20.57%
Total Contributions: \$3,650.00
Average Gift: \$125.86

Yared Aklilu
Michael Lynn Ault
Lisa Marie Beaudet
Karen Elizabeth Brown
Elizabeth W. Capacio
Elliot Evan Cazes
Beth Gail Diamond
Michael A. Dias
Robert B. Donegan
Fazeela Ferouz
Jennifer Hollywood
Thomas B. Kelso
Lorrie Regina Mello
Arman C. Moshedy
Janet M. O'Mahony
James Joseph O'Rourke
Bertan Ozgun
John Michael Pabers
John Joseph Pagan
Zinon Mark Pappas
Martha Jane Pierce
David Seth Pomerantz
Roberto N. Puglisi
Cynthia Niemeyer Schaeffer
Christianne Schoedel
Linda E. Smiddy-Nelson
David Lee Taragin
William Carroll Todd
Marjorie K. Warden

1992

Number of Donors: 23
Participation: 15.33%
Total Contributions: \$3,020.00
Average Gift: \$131.30

Eligio B. Aguhob Jr.
Vasiliki M. Anvari
Linda Matsas Berger
Nechama Bernhardt
Jeffrey Dubin
David Gentry
Anthony H. Guarino
Donna S. Hanes
Joseph C. Hsu
David Kossoff
Jonathan Krome
Joseph L. Manley
Kendall Ann Marcus
Claudia Montgomery-Hays
Joyce Owens
Judith Racoosin
Lisa Kolste Rakowski
Ronald T. Rakowski

Classes with the Highest Number of Donors

1980	65
1977	52
1978	49
1983	49
1966	46
1973	46

David C. Rubin
Roger Marc Stone
Susan E. Wandishin
Thomas S. Wilson
Shelly Wong Woodward
D. V. Woytowicz

1988

Number of Donors: 33
Participation: 24.26%
Total Contributions: \$7,900.00
Average Gift: \$239.39

Katherine J. Amundson
Lois A. Carani
Thomas P. Carr
Eugene B. Choo
Carol C. Coulson
Paula A. DeCandido
Jose E. Dominguez
Matthew R. Dukehart
Stephen Mark Elksnis
Joel D. Fechter
James V. Ferris
Mark H. Framan
Audrey L. French
Christopher J. Galiardi
Keith B. Gustafson
Gregg L. Heacock
Jay C. Koons
Luke Lancaster
Marilyn N. Ling
Christopher J. Mays
Stanley M. Pamfili
Richard D. Patten
Suresh Philip
Philip C. Pieters
Stephen M. Pomerantz
Jeffrey P. Ross
Gail M. Royal
David B. Schmitzer
Jonathan A. Seidenberg
Stanley Joonho Shim

Darryn M. Band
Louis I. Bezold III
Angela I. Choe
Neri M. Cohen
J. William Cook IV
Steven R. Daviss
Mary Carmel Deckelman
Clarita G. Frazier
David A. Gnegy
Randolph B. Gorman
Ann S. Hagen
Maura K. Hanrahan
Stephen F. Hatem
Babak J. Jamasbi
Karen L. Ksiazek
Cheryl Dungan Leonard
Norman A. Lester
Robert T. Maupin Jr.
Joy L. Meyer
Eric Millman
Jean Marie Naples
Lawrence G. Narun
Merdad V. Parsey
David A. Riseberg
Glenn L. Sandler
Lise K. Satterfield
David S. Scharff
David P. Smack
Patricia M. Sullivan

1990

Number of Donors: 22
Participation: 16.30%
Total Contributions: \$8,150.00
Average Gift: \$370.45

Samuel M. Alaish
Carolyn M. Apple
David H. Balaban
Nicholas M. Cardiges
William Pierson Cook
Jennifer P. Corder
Peter E. Darwin
Craig K. Freedman

Honor Roll

Michael Ritondo
Geoffrey L. Rosenthal
Richard Heston Seidel
Lawrence Seiden
Rebecca Heaps Ward

1993

Number of Donors: 25
Participation: 17.99%
Total Contributions: \$5,850.00
Average Gift: \$234.00

Steven Avezzano
Gregory M. Brouse
Susan Brouse
Paulette Browne
Lisa Collazzo
Kathryn M. Connor
Valerie Dyke
Kevin G. Eichhorn
Heather E. Houck
Debra B. Hurr
Patricia Jett
Mark William Keenan
Karen E. Konkel
Yong B. Lee
Gregory Levickas
Andy Lieberman
Denis Lin
Jeevan Mathura Jr.
Douglas Seeb
Michael W. Stasko
Susma S. Vaidya
Christopher Welsh
Lore B. Wootton
Thomas H. Yau
Charles Yim

1994

Number of Donors: 14
Participation: 11.38%
Total Contributions: \$3,340.00
Average Gift: \$238.57

Suzanne Carr
Michelle A. Fontenelle
Thomas A. Hensing
Deborah S. Hopkins
Claudia Krasnoff
Nhui C. Le
Louis B. Malinow
Connie Marie McRill
Bahador Momeni
Christopher P. Moore
Jay B. Penafiel
George A. Porter, Jr.
Gail Fredericks Russell
Andrew Lawrence Smock

1995

Number of Donors: 26
Participation: 18.71%
Total Contributions: \$3,980.00
Average Gift: \$153.08

Walter F. Artha
James Boler
Susan Boyd
Beth Marie-Arciprete Comeau
Veronica Florence Deza
Kevin Dooley
Kim E. Goodsell
Gail Granof-Warner
Keith Harston
Shelly Harston-Jones

Sanjay Jagannath
Meredith Joseph
Iana Kaplan
Mitesh Kothari
Charles Lancelotta III
James Liszewski
Edward L. McDaniel
William Lance Miller
John P. Moriarty
Wendy M. Paul
Lamont Smith
Lisa Smith
Theodore S. Takata
Julie Tishler
David Vroman
Scott Winiecki

1996

Number of Donors: 29
Participation: 19.21%
Total Contributions: \$7,050.00
Average Gift: \$243.10

Rebecca Appleton
Scott Becker
Lesly Berger
Christian Bounds
Maureen G. Burdett
Brian Cantor
Eric Carr
Joy Collins
Michele Cooper
Robert F. Corder
Marcia Cort
Teresa Cox
Stephen Fisher
Ellie Goldbloom
Janet Y. Higgins
Julie Hurlock
Sara Levin
Luis Llerena
David Mandell
Anne Martello
Mary B. Martello
Lisa Kilburg Martinez
Lisa Miller
Robyn Miller
Donna M. Osikowicz
Monica Sarang
Gary Sherman
Angela Delclos Smedley
Huyanh Ton

1997

Number of Donors: 31
Participation: 20.13%
Total Contributions: \$5,525.00
Average Gift: \$178.23

George V. Antonopoulos
Jennifer Bamford
Jennifer Beall
Laurie Millar Bothwell
Margaret Kelly Burkhead
Ruwanthi Samaranyake
Campano
Michele Campisi
Regina Clark
Carol S. Cox
Daniel C. Farber
Rachelle Gayadhar
David Heydrick
Matthew Howe
Rachel Kramer
Sapna Patel Kuehl
Thomas Maslen

Andrew Morton
Susan Lantham Nevin
Brian Newcomb
Barbara Piasecki
Victoria C. Pierce
Y. Pritham Raj
Elizabeth Reece
G. Anthony Reina Jr.
Martina Atshar Reiss
Darlene Robinson
Heidi Ginter Shah
Debbie Spencer
Jane Wang
Jay Weiner
Eduards Ziedins

1998

Number of Donors: 24
Participation: 16.91%
Total Contributions: \$2,965.00
Average Gift: \$123.54

Aaron M. Bates
Brendan C. Berry
Percy Boateng
Grace L. Carangal
Herlene Chatha
David Chiu
John M. Cox
Jonathan E. Davis
Elizabeth D. Feldman
Jessie M. Gaeta
Ryokei K. Imai
Erika S. Kenney
Thomas J. Kenney III
Jennifer O'Hara Lauchle
Robert T. Lin
Jennifer C. Logan
Hearther D. Mannuel
Joseph P. Martinez
Timothy J. McAveney
Megan O'Brien
Rajesh M. Prabhu
Karen R. Raksis
Kevin C. Reed
Karen P. Riegert

1999

Number of Donors: 22
Participation: 15.71%
Total Contributions: \$9,625.00
Average Gift: \$437.50

Seth M. Cohen
Leslie Emmert-Buck
Robert D. Flint Jr.
Steven D. Goodfriend
Daniel E. Herman
Eric K. Johnson
Charlotte M. Jones-Burton
Andrew C. Kramer
Susan S. McLaughlin
James L. Medina
Thuy D. Ngo
Maurice N. Reid
Richard L. Rosol
Andrew R. Rubin
Mark G. Saba
Lisa M. Soule
Kristin Michelle Ward
Stackpole
Frank D. D. Trinh
Elizabeth M. Weaver
Kenneth A. White
Mallory Williams
Alla Zilberman

2000

Number of Donors: 35
Participation: 25.00%
Total Contributions: \$4,580.00
Average Gift: \$131.00

Allen T. Banegura
Morgen Bernius
Tamara I. Burgunder
Jacqueline A. Caffrey
Esther E. Elliott
Nidhi B. Feinberg
Marjorie S. Fridkin
Carla E. Galang
Adam K. Gelrud
Riple J. Hansalia
Joseph M. Herman
Charles F. Hobelmann III
Mariesa Hales Howe
Mohsin A. Husain
Rebecca A. Kazin
Daniel L. Lemkin
Melissa K. Levine
Emily J. Massey
Nancy M. McGreal
Pai C. Meng
Carla M. Mosby Ward
Miriam J. Mullin
Bonaventure B. Ngu
Milad L. Pooran
Michael Rodrigues
Joanne D. Saxour
Debra L. Schwab
Matthew D. Sedgley
Kerry R. Shaab
Samsheer B. Sonawane
Claudia P. Truitt
Bradley J. Wasserman
Jianping Yang
Lisa B. Yanoff
Thomas Chizen Yu

2001

Number of Donors: 19
Participation: 15.45%
Total Contributions: \$2,400.00
Average Gift: \$126.32

Charles Albrecht III
Julia Anixt
Allison R. Boester
Kristina A. Cole
Darren Feldman
Josh S. Forman
Joseph G. Hobelmann
Vladimir Ioffe
Elizabeth Ives
Jakub Kahl
Eric Klineberg
Teresa I. Kulie
Robert Pergament
Chinh N. Pham
Igor Poltunnikov
Joshua Rosenthal
Joshua J. Wesshaar
Marcie O. Wertheb
Megan B. Wollman

2002

Number of Donors: 22
Participation: 16.30%
Total Contributions: \$2,110.00
Average Gift: \$95.91

Kenneth L. Comeau
Fahma Galloway
Aparna Choudhary
Eve Field
Wilda Gellard
Jennifer C. Lino
Scott M. Katzen
Daniel Kaufman
Sarah J. Keller
Amy Kimball
Matthew Kwinn
Aaron V. Lovinger
Danielle Moul
Jeffrey Rea
Robert Reid
Eugenia C. Robertson
Francis M. Segre
Jean Silver-Isestadt
Matthew Smith
Andrew Stollbach
Elissa C. Thompson
David J. Wang

2003

Number of Donors: 20
Participation: 15.87%
Total Contributions: \$1,570.00
Average Gift: \$78.50

Jared R. Berkowitz
Stephanie Borum
Jason Custer
Todd W. Flannery
Warren J. Gasper
Sharla Hart
Rachel Hartman
Bridget A. Hilliard
Jeffrey T. Hobelmann
Nathaniel L. Holzman
Eric Johnson
Meredith A. Johnston
Abbe J. Penziner
Jill Rathen
Courtney Rosenthal
Karen M. Sutton
Richard A. Tempel
Tasos Vakkas
Judy Wang
Mark H. Wernick

2004

Number of Donors: 15
Participation: 11.03%
Total Contributions: \$885.00
Average Gift: \$59.00

Richard Bounds
Anis Frayha
Robert J. Habicht
Elizabeth Chase Hall
Dan Hatel
Christine Hayes Wu
Allison K. Hobelmann
Leila Zemab Khan
Michael Perraut
Kathryn S. Robnett
Melanie N. Smith
Benjamin D. Snyder
Kristina Susan
Robin Veidt Manson
Willis Wu

Honor Roll 2010

2005

Number of Donors: 16
Participation: 11.76%
Total Contributions: \$1,015.00
Average Gift: \$63.44

Alexandra D. Bentley
Michael R. Boivin Jr.
Natalie M. Branagan
Jason R. Cornelius
Timothy J. DeCapite
Monique O. Falconer
Michelle A. Folsom
Nicole S. Gable
Bryan J. Loeffler
Janelle M. Martin
Danica Novack
Jillian B. Parekh
Marissa J. Perman
Jennifer A. Roth
Daniela B. Smith
Gareth J. Warren

2006

Number of Donors: 27
Participation: 19.29%
Total Contributions: \$966.00
Average Gift: \$35.78

Christina Bennett-Fee
Kathryn E. Berryman
Patricia Carlson
Katherine Connor
Tara Cook
Brian Delligatti
Mark Domanski
Laurence M. Edelman
Julie Fifer
Neda H. Frayha
Adam D. Friedlander
Katherine Goetzinger
Maria Hamm
Andrew Heath
Leah C. Jones
David Lundy
Elise A. Malecki
Alexis H. Manchio
Jesse Mez
Jeffrey Mindel
Timothy Owolabi
Robert R. Redfield III
Rachel Santora
Mark Schneyer
Cathleen Sybert
Michael Weisburger
Pamela Winterberg

2007

Number of Donors: 13
Participation: 8.50%
Total Contributions: \$490.00
Average Gift: \$37.69

Ishita Arya
Timothy Chizmar
Latricia Cook
Elisa Knutsen
Amanda Kramer
Bradley Kramer
Susan Mabrouk
Robyn Miller

Megan Niziol Alcock
Tania Markowski-Peters
Jared Reaves
Chanda Reese
Catherine Zorc

2008

Number of Donors: 23
Participation: 15.49%
Total Contributions: \$1,095.00
Average Gift: \$47.60

Kathleen E. Barrett
David J. Carlberg
Michelle Y. Cho
Stephenie R. Fleegle
Ellen Goldmark
Jason J. Heavner
Nadine Himelfarb
Dina Ismail
Stephanie Kahntroff
George Kochman
Jodi D. Krumrine
Daniel Lerman
Michelle Levender
Zaineb Makhzoumi
Jeffrey Mayer
Michelle Melo
Dana Neutze
Elizabeth Nichols
Yun Ja Park
Tina Rezaian
Luke R. Smart
Christina C. Wright
Joseph Yeh

2009

Number of Donors: 27
Participation: 19.42%
Total Contributions: \$675.09
Average Gift: \$25.00

Philip Brazio
Cassidy Claassen
John Douglas
Meghan Dubina
Carol Geddes
Nicole Gloff
Lindsay B. Goicochea
Linda Hall
William Ide
Lei Jiang
Judith Kopinski
Cara Kurlander
Alexander Macarthur
Shavonne Massey
Teresa Matejovsky
Jennifer Redfield Miller
Kelly Norsworthy
Hetal Patel
Erin Rada
Zachary J. Roberts
Elizabeth Smelter
Kimberly Smutz
Kathleen Sterling
Semhar Tewelde
Poornima Vanguri
Treasure Walker
Ethan Weinberg

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Appointments to National Organizations

James Borin, MD, assistant professor, department of surgery, was named to the editorial boards of the *Journal of Endourology* Part B: *Videourology* and the *Internet Journal of Urology*. Additionally, Borin was recognized by the American Urological Association Foundation for organizing prostate cancer screening events throughout Baltimore.

Kenneth H. Butler, DO, associate professor, and **Cynthia S. Shen, DO, MS**, clinical assistant professor, both from the department of emergency medicine, have been named fellows of the American College of Osteopathic Emergency Physicians. Butler was awarded an honorary fellowship in January, while Shen became an active fellow in May.



Kevin Ferentz, MD

Kevin Ferentz, MD, associate professor, Department of Family & Community Medicine, has been appointed the co-chair of The Tobacco Use Prevention & Cessation and Cancer Committee, which is part of the

Maryland Comprehensive Cancer Control Plan of the Maryland Department of Health & Mental Hygiene.

Renee Fox, MD, FAAP, associate professor, department of pediatrics, received a two-year appointment as a member of the committee on federal government affairs by the board of directors of the American Academy of Pediatrics (AAP). Members are selected in recognition of their commitment to children and their ongoing involvement in the local and national work of the AAP by bringing expertise and current committee considerations to the local chapter.

Willem J. Kop, PhD, associate professor, department of medicine, was appointed editor-in-chief of *Psychosomatic*



Willem J. Kop, PhD

Medicine, the official journal of the American Psychosomatic Society. This interdisciplinary journal is devoted to the experimental and clinical investigation of social, psychological and behavioral factors and their associations with biological and physiological processes in health and disease. Kop begins his editorial activities in January 2012.

Awards & Honors

Carol Carraccio, MD, professor, department of pediatrics, was elected to Alpha Omega Alpha by Drexel University, her alma mater.



Lisa B. Dixon, MD, MPH

Lisa B. Dixon, MD, MPH, professor, department of psychiatry, was recipient of the 2009 American Psychiatric Institute for Research and Education Health Services Research Senior Scholar Award from The American

Psychiatric Association. This award was given in recognition of Dixon's broad contributions to the field of health services research.

Philip A. Mackowiak, '70, professor & vice chair, department of medicine, received the American College of Physicians Nicholas E. Davies Memorial Scholar Award for Scholarly Activities in the Humanities and History of Medicine, and he delivered the Nicholas E. Davies Memorial Lecture at the annual meeting of the American College of Physicians in Toronto in April. The title of his lecture was "A Modest Proposal for Preventing Primary Care Physicians in America from Being



Philip A. Mackowiak, MD, MBA, MACP

a Burden to Their Profession or Country, and for Making Them Beneficial to the Public."

Wendy Sanders, MA, assistant dean for research career development, was named to *The Daily Record* 2010 Maryland's Top 100 Women. Awardees are chosen based on leadership, mentoring and community service. A recognition ceremony as well as celebration was held in May.



Wendy Sanders, MA

Erin Strovel, PhD, assistant professor, department of pediatrics, was named recipient of the trustee alumni award by the board of McDaniel College. The presentation will be made during graduation exercises next May. The award is presented for distinguished professional achievements. Strovel received her BA in biochemistry summa cum laude, Phi Beta Kappa, from McDaniel College.



Erin Strovel, PhD

Jing Tian, BM, PhD, research associate, department of medicine and office of faculty affairs and professional development, is recipient of the 2010 Fox Award for her research presentation "Program Evaluation for NCI



Jing Tian, BM, PhD

Physician CME Activity." The award is given to the presenting author of a research project at the Society for Academic CME spring meeting and recognizes originality, link to theory, methodological rigor, and importance of its contribution to the literature.

Ikwunga Wonodi, MBBS, associate professor, department of psychiatry and Maryland Psychiatric Research Center, received the 2010 Jeanne Spurlock Minority Fellowship Achievement Award from The American Psychiatric Association (APA). The award recognizes outstanding contributions to psychiatry, mental

health advocacy, and APA Minority Fellowships. Wonodi is a former fellow of the program and is founder of The African Alliance on Mental Illness, which works to de-stigmatize mental illness in Nigeria, his native country.

Events, Lectures & Workshops



Johannes Bonatti, MD

Johannes Bonatti, MD, professor, department of surgery, and **David Zimrin, MD**, assistant professor, department of medicine, in collaboration with **Bartley Griffith, MD** professor, department of surgery,

and Dr. Guy Friedrich from the Innsbruck Medical University, organized the 5th Integrated Cardiovascular Repair (ICR) Workshop in Baltimore in March. More than 200 professionals from 15 countries and five continents attended the conference. An international faculty of interventional cardiologists, cardiac surgeons, electrophysiologists and heart center administrators explored innovative, collaborative approaches for the treatment of coronary, structural, and electrical heart disease.

William T. Carpenter, MD, professor and director, Maryland Psychiatric Research Center, department of psychiatry, presented "On the Future of Schizophrenia Therapeutics" and led a workshop entitled "Remission and Compliance in Schizophrenia" at the Schizophrenia and Depression: Clinical and Neuroscience Update in Florence, Italy, in March. Then, in April, he was an invited speaker at the 2nd Biennial Schizophrenia International Research Society Conference where he presented "Anticipating DSM-V: New Paradigms," also in Florence.



William T. Carpenter, MD

Myron Levine, MD, DTPH professor, department of medicine, and director, center for vaccine development, and **Christopher Plowe, MD**, professor, department of medicine, and chief, malaria section, center for vaccine development, attended the Malaria Eradication Research Agenda (malERA) Zenith Week in Arlington, Va., in March. Funded by the Bill and Melinda Gates Foundation, the malERA project has worked for two years to define a research agenda for global malaria eradication. Both Levine and Plowe served on the malERA steering committee, and Levine chaired an international advisory committee of renowned scientists who have led campaigns to eradicate smallpox and other diseases. Plowe chaired the malERA group on drugs and presented recommendations to a leadership council that included the directors of the National Institute of Allergy and Infectious Diseases, the World Health Organization, the Roll Back Malaria Partnership, the Wellcome Trust, as well as the global health program of the Gates Foundation.

Michael Makley, MD, assistant professor, department of neurology, presented two posters at the World Congress on Brain Injury in Washington, DC, in March. They were entitled "Aspiration Pneumonia Associated with the Use of Dantrolene Sodium in Low Level Responsive Patients with Traumatic Brain Injury" and "Tactile Defensive Behavior on a Rehabilitation Unit Following Moderate to Severe Brain Injury." Makley also gave a platform presentation entitled "Sleep Efficiency and Resolution of Post Traumatic Amnesia after Closed Head Injury."

Amal Mattu, '93, professor, department of emergency medicine, co-directed and instructed a five-hour electrocardiography workshop during the 13th Congress of Chest Pain Centers, held in Las Vegas in April. His lectures were titled "ST-Elevation Myocardial Infarction (STEMI) Recognition," "Confounding Patterns in STEMI" and "Mimics of Cardiac Ischemia." Additionally, in May, Mattu was the sole U.S. faculty member at Canada's largest annual emergency medicine conference, the 23rd Annual North York General Hospital Emergency Medicine Update, held in Toronto. He presented a lecture entitled "The Crashing Asthmatic: Pearls and Pitfalls" and conducted a two-hour session on care of the elderly patient in the emergency department as well as a two-hour workshop on manag-

ing cardiac dysrhythmias. He also served as the emergency cardiology expert in a session entitled "How the Experts Think: Emergency Cardiology Cases."

Mary C. McKenna, PhD, associate professor, department of pediatrics, was chair of the 9th International Conference on Brain Energy Metabolism, entitled "Mitochondrial-Cytosolic Interactions From Energetics to Pathogenesis," held in Budapest, Hungary, in July. Held at Semmelweis Uni-



Mary C. McKenna, PhD

versity, the conference was attended by 135 investigators, post-doctoral fellows, and students from 37 countries. Presentations were given by leaders in the fields of mitochondrial research and energy metabolism. A special issue of the *Journal of Neuroscience Research*, co-edited by McKenna, will be published in 2011 with manuscripts from the meeting. McKenna is one of the founders of this series of international meetings related to brain energy metabolism.

Steven D. Munger, PhD, professor, department of anatomy & neurobiology, chaired a symposium on "Chemoreception in Context: Interactions with Endocrine Systems and Metabolic State" at the 32nd annual meeting of the Association for Chemoreception Sciences in St. Petersburg, Fla., in April. In addition, he presented an invited talk entitled, "Mechanisms of Alimentary Chemoreception," at the 30th Blankenese Conference in Blankenese-Hamburg, Germany, in May. The title of the conference was "Sensory and Metabolic Control of Energy Balance."



Steven D. Munger, PhD

Mayur Narayan, MD, MPH, MBA assistant professor, department of surgery, presented "New Ways of Making Blood Clot" for an invited lecture at Singapore Trauma 2010, held at Tan Tock Seng Hospital in Singapore in April. Narayan also served as international faculty representing the R Adams Cowley

Shock Trauma Center for the definitive surgical trauma course to residents and practicing consultants from Singapore, Thailand, Malaysia and the UK.



Y Veronica Pei, MD, MEd, MPH, Stephen Schenkel, MD, Jennifer Saltzberg, MD, and Kenneth Butler, DO, attending the Xiangya Emergency Medicine Conference.

Y. Veronica Pei MD, MEd, MPH, assistant professor, **Kenneth H. Butler, DO**, associate professor, **Stephen M. Schenkel MD**, assistant professor, and **Jennifer Reifel Saltzberg, MD**, clinical instructor, all from the department of emergency medicine, were invited speakers at the Xiangya Emergency Medicine Conference, held at Xiangya Hospital of the South Central University in Changsha, Hunan (China), in April.

Kathirkama Shanmuganathan, MBBS professor, department of diagnostic radiology & nuclear medicine, presented "Bowel and Mesenteric Injuries," "Penetrating Injuries," and "Missed Injuries" and participated in a panel discussion entitled "Balancing Multiple Injuries/Priorities" and "Exsanguinating Pelvic Injuries" at the 6th Nordic Course in Trauma Radiology, in Stockholm, Sweden, in June.

Lisa Shulman, MD professor, department of neurology, chaired the 3rd International Congress on Gait & Mental Function held in Washington, DC, in February. This event attracted more than 500 attendees from 38 different countries.



Lisa Shulman, MD

Book/Textbook Publications

Brian Berman, MD professor, department of family & community medicine, and director of the center for integrative medicine, and **Eric Manheimer, MS**, research associate, center for integrative medicine, facilitated a special collection of reviews for *The Cochrane Library* about the efficacy of acupuncture to treat various health conditions. The Cochrane Collaboration produces *The Cochrane Library*. It is an international, non-profit organization cataloging the latest evidence-based healthcare assessments to help providers, practitioners, and patients make informed decisions about health care.



Brian Berman, MD



Deanna L. Kelly, PharmD, BCPP

Deanna L. Kelly, PharmD, BCPP, associate professor, department of psychiatry, and **Elaine Weiner, MD**, assistant professor, and **Heidi J. Wehring, PhD**, instructor, both from the department of psychiatry and Maryland Psychiatric

Research Center, co-authored a chapter on schizophrenia in *Pharmacotherapy Principles and Practice, 2nd Edition*. The text, intended for health care professionals and students, won a medical book award from the American Medical Writers Association.

James E. McNamee, PhD, associate professor, department of physiology, and associate dean of information services and chief information officer, co-authored "Chapter 5: Federated Authentication" in *Biomedical Informatics for Cancer Research*.

Grants & Contracts*

William Carpenter, MD, professor, department of psychiatry, and director, Maryland Psychiatric Research Center, received a \$2.8 million High-End Instrumentation grant from the National Center for Research Resources for "A 3T Scanner for Establishing UM MPRC Neuroimaging Research Facility."

Rob Cook, MBA, director, operations, office of finance & resource management, and **Alan Tompkinson, PhD**, professor, department of radiation oncology, obtained a \$5 million C06 construction grant from the National Center for Research Resources to renovate the 8th floor of the Bressler Research Laboratory to be used by Marlene & Stewart Greenebaum Cancer Center faculty and staff. Cook also collaborated with **Nicholas Ambulos, PhD**, associate professor, department of microbiology & immunology, and executive director, SOM core facilities, in obtaining a \$7.3 million G20 construction grant from the National Center for Research Resources to renovate the 6th & 7th floors of the Bressler Research Laboratory into a technology resource center to consolidate core facilities.

Todd D. Gould, MD, assistant professor, department of psychiatry, received a five-year, \$1,892,500 R01 grant from the National Institute of Mental Health for his work entitled "Suicide Endophenotypes and Molecular Mechanisms of Lithium Action."

Deanna L. Kelly, PharmD, BCPP, associate professor, department of psychiatry, is the PI on a collaborative contract, the Maryland Psychiatric Research Center (MPRC) residential research services contract (HHSN271200599091C), designed to study substance use comorbidity in people with mental illness. The National Institute for Drug Abuse (NIDA) has funded the contract for an additional two-year period. Initially awarded in July 2005 for more than \$13 million, this extension adds almost \$5 million in research support. Currently 30 MPRC-NIDA collaborative research studies are being conducted and a total of 18 MPRC and 15 NIDA intramural

investigators are leading projects funded by the contract.

Steven D. Munger, PhD, professor, department of anatomy & neurobiology, received a \$2.22 million competitive renewal R01 grant from the National Institute on Deafness and Other Communication Disorders for his work entitled "Transduction Mechanisms and CNS targets of GC-D neurons."



David Weber, PhD

David Weber, PhD, professor, department of biochemistry & molecular biology, received a \$7.9 million high-end instrumentation grant from the National Center for Research Resources for a 950 MHz NMR

Spectrometer with Cryogenic Probe. Maryland is the only academic institution in the country to have such a piece of equipment.

Paul A. Welling, MD, professor, department of physiology, received a 5-year, \$1,620,000 competing renewal grant from the National Institute of Diabetes and Kidney Diseases at the NIH to support his research proposal entitled "Molecular Mechanism of ROMK Channel Function."



Paul A. Welling, MD



Peixin Yang, PhD

Peixin Yang, PhD, assistant professor, department of obstetrics, gynecology & reproductive sciences, received a five-year, \$1.5 million grant from the National Institute of

Diabetes and Digestive and Kidney Diseases for "Apoptotic Mechanism of Maternal Diabetes-Induced Neural Tube Defects."

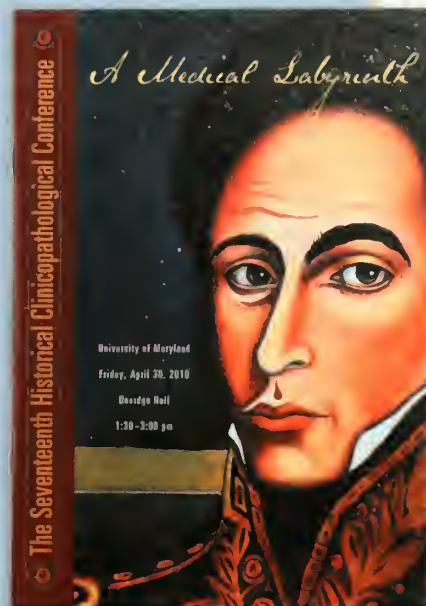
**Grants & Contracts of \$1 million and above*

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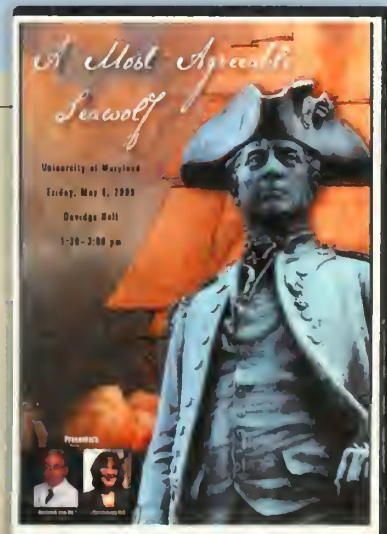
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A full-page photograph of a diver in a hyperbaric chamber. The diver is wearing a black wetsuit, a mask, and a regulator. They are positioned in the center of the frame, with their arms slightly out. The background is a blue-tinted view of the interior of the chamber, showing various equipment and a large white cylindrical structure on the right. The title 'A Giant Step for Medicine' is overlaid on the top half of the image. 'A Giant Step for' is in white serif font, and 'Medicine' is in a larger orange serif font.

A Giant Step for Medicine

By Rita M. Rooney

Robert Haddon, '89


[ALUMNUS PROFILE]

Science fiction, the moon landings, and dreams of space exploration propelled by a boy's imagination—these were the building blocks of a self-styled future for Robert Haddon, '89.

From an early age, Haddon was not only fascinated by the space program, he believed firmly and enthusiastically in its importance. He also wanted to become a doctor.

"It wasn't until I got my MD and completed two residencies that I realized I could combine both interests in a practical way," Haddon says.

The physician who is board certified in internal medicine, infectious diseases and aerospace medicine, is today flight surgeon at the National Aeronautics and Space Administration (NASA) Johnson Space Center, assigned to supporting the International Space Station (ISS). The term "surgeon" is military jargon that doesn't imply sur-



Haddon assessing a submerged space station mock up, used for extravehicular training.

gical intervention, but responsibility for maintaining health and performance in an aerospace environment. It's Haddon's job to keep astronauts well and physically fit both on earth and in space.

The ISS, which currently is in orbit, was built by its international partners including the space agencies of Russia, Europe, Japan, Canada and the US. Its mission is to study science in space and, in the course of doing so, the team is learning much about space travel itself.

What are the challenges faced by a physician charged with keeping astronauts fit for space flight?

"A great deal goes into ruling out cardiovascular and bone loss issues," Haddon reports. "We deal too with the neurological impact on astronauts, and the whole range of environmental quality, including air and food quality, plus hygiene and potential changes in one's immune system. Then there are questions such as which antibiotics do you send into space for astronauts who will be there for six months."

He adds that emergency situations are practiced through simulation, and that there is a medical capacity in orbit at the space station. An automatic external defibrillator, airway equipment, supplemental oxygen, IV fluids, an emergency kit, and a variety of medications are available.

On an educational level, Haddon studies and gives presentations to the aerospace community on the ecology within the space station and how humans, who are not sterile beings, can be protected from the inevitable

microbial ecology within that environment.

"I once did a master's thesis on air quality in a hyperbaric chamber," he says. "Now, ten years later, I'm facing similar questions that theoretically mimic the same environment."

Haddon spends two to three months of every year in Russia, supporting the American astronauts who are training on Russian hardware. Since portions of the international space station have been designed and built by different countries—with some pieces assembled in orbit—training mock-ups vary, requiring astronauts to spend time at each agency.

He admits the toughest part of his work is the separation from his wife and two daughters necessitated by the months he spends in Russia each year. He is quick to add, however, that there is a flip side that has provided a family experience probably only a few enjoy. Recently, his family spent three weeks with him in Star City, Russia, where his daughters maintained their studies by attending the Star City Music School.

"We were there for the school's 40th annual pageant, and my girls were invited to play the piano for a Russian audience," he says. "It was an experience I think they will treasure in years to come."

Haddon's spontaneous enthusiasm for his work is paired with outspoken regard for his years at Maryland. He says what he remembers most is working hard.

"I remember there was an emphasis on clinical thinking, not just ordering tests, and that has served me in good stead through the years," he says. "Culturally, there was an interest in world history, as well as medical history, and the relationship between medicine and civilization struck home with me."

A typical day for Haddon is probably spent primarily in mission control, interacting with the team. He may rise at 4:30 a.m., and set out to help monitor the physiological performance of an astronaut. His responsibilities are varied, but all are collaborative, within NASA, and among the ISS international partners.

According to him, aerospace medicine has changed considerably in the last 50 years, due to the increasing sophistication of the program itself and the backgrounds of astronauts. In the beginning, physically fit young people were sent into space for short periods of time. While today's astronauts are still exceptionally fit, they are men and women who may have taken time to earn a couple of doctoral degrees, and who have traveled in space many times or for lengthy periods. Some have developed special skills requiring intense training. Aerospace medicine is a preventive science, one that has become more multifaceted along with the complexity of an astronaut's age and background.

At times, talking to Haddon, one can see the boy who graduated from science fiction to an absorption in the space program. When asked about the rewards of his career choice, he says simply that it is going to work each morning and helping to advance a program he believes in. But then, the voice gains momentum and he talks about watching a space shuttle land in the California high desert, then driving up to it, climbing through the hatch, and taking care of people who have just returned from space. It's then that one understands, not only the enormity of Haddon's commitment to this mission, but the fun he has found living a boyhood dream. 🏠

[ALUMNUS PROFILE]

Tenure and Teaching

Amal Mattu, '93

RECENTLY TENURED alumnus Amal Mattu, '93, professor of emergency medicine at Maryland, is invested in teaching, a passion he developed from role models he encountered during medical school. He singles out the late **Theodore E. Woodward, '38**, whom he met during an internal medicine rotation in his third year.

"He inspired me to focus on emergency medicine, and caused me to think seriously about the importance of teaching," Mattu says. "It wasn't what he taught as much as his enthusiasm for the subject. He thoroughly believed that both medicine and teaching should be fun, and he communicated that to those who were fortunate enough to be his students."

Mattu, who directs the emergency medicine residency program, has followed in Woodward's footsteps with numerous teaching awards, from five successive teacher of the year awards at Mercy Medical Center and three similar citations from the medical school, to national honors from the American College of Emergency Physicians and American Academy of Emergency Medicine. He is a frequent invited lecturer at academic institutions throughout the country and in places as far-flung as India and China. In the US, presentations at national conferences include stops at Harvard, Yale, Stanford, Mayo Clinic, Columbia, Brown, Vanderbilt, University of Pennsylvania, Hopkins, and others.

He separates teaching into the kind that is done concurrently with clinical care from the bedside, and that which is performed on the lecture circuit—generally to practicing emergency physicians. Is there a secret to his success?

"I can only say that, from the start, I found myself standing in front of people and trying to make things simple," he says. "I'm a simple-minded person. I don't grasp complex concepts. I've come to realize that students, residents, and physicians who have been in practice for 20 years all want the same—a lesson that is simple, straightforward and fun."

Mattu claims he chose emergency medicine because he enjoyed being the first person to meet a patient and come up with a diagnosis. He thinks of medicine, in many ways, as solving a mystery. In emergency medicine a doctor gets the first crack at the mystery.

"We can't always provide definitive treatment," he acknowledges. "But it's our role to see that a patient is headed in the right direction."

He admits he is partial to emergency medicine because of the variety of patients who come through the ER doors. He has no idea when he arrives each day what the next eight hours will bring, and he enjoys that.

He refers to his national and international presentations as a "nerdy hobby." Following his residency in emergency medicine he served a teaching fellowship at the American College of Emergency Physicians, and it gave him an opportunity to hone in on teaching skills and do some public speaking. To this day he enjoys reading books on the subject and says he learns a little more, or a different technique, from each one. In

Mattu claims he chose emergency medicine because he enjoyed being the first person to meet a patient and come up with a diagnosis. He thinks of medicine, in many ways, as solving a mystery. In emergency medicine a doctor gets the first crack at the mystery.



addition, he audio and videotapes his presentations to pinpoint areas where he needs improvement.

"You can never settle for where you are in life," he says pragmatically. He appears to be emphasizing this theory in his leadership of the emergency medicine residency program. In that role, he has spearheaded a program to develop leaders in the field of academic emergency medicine. Residents and faculty are encouraged, through innovative curricula and mentoring initiatives, to become engaged in writing, teaching, and service. He has expanded clinical rotations to include more critical care, pediatric, international, and community opportunities, as well as didactic and reading curriculum emphasizing geriatrics, cardiology, and risk management in emergency medicine. The result is that the department currently receives more than 1,000 applications each year for 11 residency positions.

"Ours is the only residency program that, in addition to a categorical program in emergency medicine, has three combined programs in emergency medicine/internal medicine, emergency medicine/pediatrics, and emergency medicine/internal medicine/critical care," Mattu reports.

Mattu has been first author on two books, senior editor on three, and associate editor on another four. The focus of most of his books has been electrocardiogram interpretation and other high-risk topics in the emergency department.

Looking back at his schooling, Mattu says he is most appreciative of Maryland's commitment to education.

"This is not something that is found in every school of medicine," he says. When I travel around the country

and talk to colleagues at other universities, the most common lament I hear is that schools don't appreciate the efforts made in teaching, and that education is not a prime focus. Unfortunately, too many talk about good education, but they don't reward good educators."

He says he once heard someone claim that neither Socrates nor Osler would achieve tenure at most universities today. "Today's emphasis on grant-funded research is certainly important," he says. "It's good to realize, though, that through the years, Maryland has recognized the importance of outstanding educators

and has rewarded dedicated educators accordingly."

When it comes to education through lectures on the national and international scene, he believes too many physicians fail to understand the relevance of publishing their presentations for a broader audience. Mattu sees publication as a very "doable" advantage in being able to disseminate one's ideas widely.

Married to an internal medicine specialist in private practice, he says his wife has caught the teaching bug and is currently teaching physician assistants while beginning to lecture as well. The Mattus have three children, a nine-year-old son and six-year-old boy and girl twins.

Probably every young medical student starts out with a goal of changing the world, and Mattu was no different. He got his first and most important lesson toward such an aim from an iconic figure at Maryland who had already changed the world—Ted Woodward.

"His research and international work made him famous," Mattu says. "But it seemed clear to me that it was teaching that made the greatest impact on his career."

He remembers once when a student asked Woodward about the importance of research and teaching in medicine. Mattu says the answer was simple, memorable, and inspiring. It ended with the words, "We entrust our scientists to discover the world, but our teachers to change it."

Hearing those words, Mattu quickly scribbled them onto a piece of paper. He has carried the quote with him for more than 17 years. 📄

160 Years Ago

In 1850, Maryland's faculty voted to alter one of their graduation requirements—for a third time since the school's founding in 1807. Initially students were required to publish a thesis, written in Latin. In 1817 the "publication" requirement was dropped, and in 1824 the thesis could be written in English. Now, faculty announced they would allow a clinical case study to substitute for the required thesis.



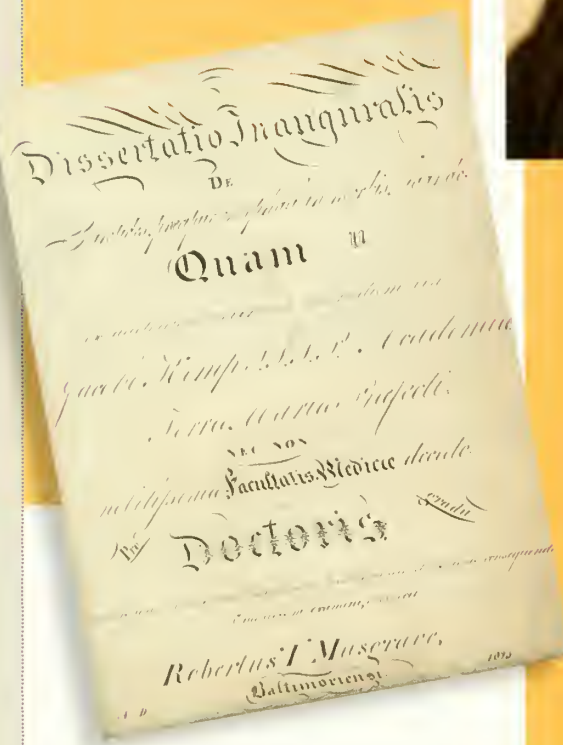
20 Years Ago

In 1990, Richard F. Leighton, class of 1955, was appointed vice president for academic affairs and dean of the school of medicine at the Medical College of Ohio at Toledo, a position he held until 1996. Leighton joined the institution in 1974 as a professor of medicine and chief of the division of cardiology.



110 Years Ago

In 1900, J. Whitridge Williams, class of 1888, pioneered investigations into the problems of the various phases of placentation. This work established Williams as the world's leading authority on the subject. His book *Obstetrics: A Textbook for the Use of Students and Practitioners* was held to be the best in America. Williams was chairman of the department of obstetrics at Johns Hopkins and from 1911 to 1923 served as dean. In 1914, Williams also served as president of the American Gynecological Society.



A look back at America's fifth oldest medical school and its illustrious alumni



What is LinkMD?

- ❖ Building a network among students, residents, faculty, and alumni.
- ❖ Promoting a sense of solidarity and pride within the University of Maryland academic community.
- ❖ Enables students to bond, to discover a mentor, and to prepare for professional life by bringing people together in a relaxed, candid, personal atmosphere.
- ❖ Interested doctors contact LinkMD with a date, time, and venue at which they would like to host an event, and an electronic sign-up is posted on MedScope, a website available to Maryland medical students.
- ❖ Hosting an event means providing dinner at their house, at a restaurant, meeting students for happy hour or sharing a hobby (running, biking, bowling, etc) with similarly interested students.
- ❖ While providing exposure to a specific field of medicine, students are also able to gain insight into the personalities that are drawn to different specialties.
- ❖ If you are interested in hosting an event or learning more about LinkMD, please email linkmd@som.umaryland.edu or visit <http://web.me.com/link-maryland>.

Student Clinician Oath

"As I begin this next stage of my medical education, I pledge to act in the best interests of my patients and to serve them with integrity, compassion, and respect for their beliefs and circumstances. In doing so, I will remember that warmth, empathy, and the art of medicine are as vital as scientific knowledge to the care I provide as a healer, educator, and advocate. To these goals, I dedicate myself in the honorable traditions of the School of Medicine."

student activities

Class of '12 off to Rotations

A simple but elegant ceremony in Davidge Hall on July 2 marked the beginning of rotations for the third-year class of 2012. For several years now the clinician ceremony has served as the official sendoff into the hospital wards and clinics. This year's class of 156 was treated to a keynote address by Michael S. Donnenberg, MD, professor of medicine, and an address by Bruce E. Jarrell, MD, FACS, vice dean. Each class member received a gold pin to add to his/her white coat and recited a student clinician oath. The event was officiated by Donna Parker, '86, assistant dean for student affairs and sponsored by the Medical Alumni Association.

Class of '14 Checks in

Davidge Hall served as the welcoming venue for 160 first-year medical students as they reported to campus August 12 as members of the class of 2014. Following a trend that began in 1996, this group has a female majority (60%). They posted an average MCAT score of 32 with a 3.73 GPA. Roughly 80 percent are residents of the State of Maryland who will be paying nearly \$25,000 this year in tuition and fees; the figure is twice that amount for out-of-state students. Members were selected from a pool of 5,000 applicants.



Five new members join the MAA Student Advisory Committee from the class of 1014. Front Row: C. Randall Cooper, '14, Berje Shammassian, '14, Sona Chaudhry, '14, Alanah Webb, '14, and Andrew Dubina, '14. Middle row: Christen Vaahits, '13; Anna Binstock, '12; Joy Cheng, '12; Thao Nguyen, '11, and Khola Tahir, '12. Back Row: Paul Goleb, '13; Andrew Tkaczuk, '13; and SAC president Peter MacArthur, '11. Missing are Ravindra Gopaul, '11, Elizabeth Le, '11; and Gregory Gasbarro, '13.

Endowed Faculty Positions Key to Medical School's Excellence

Raising funds to establish endowed professorships in the medical school remains a high priority because of the powerful impact they have on recruiting and retaining outstanding faculty. The availability of an endowed position can often make the difference in a successful recruitment. The medical school currently has fifty endowed positions, a number that doubled during the bicentennial capital campaign that concluded in 2007. As the school moves forward with a new campaign, new professorships are at the top of the list in importance.

The endowed positions come in different forms. An endowed chair of a clinical or basic sciences department requires a gift of \$2.5 million while a professorship is \$1.5 million. A distinguished professorship requires the same amount as a chair—\$2.5 million. The school's case for support highlights several priority areas that are seeking such endowed positions in order to strengthen their level of excellence.

A high mark of distinction, a named professorship is often the interest of a grateful patient who is capable of making a large gift in support of a physician who has provided care to the patient or a loved one. In 2009, for example, the Hales Family Foundation contributed \$2.5 million to establish the Thomas and Marie Hales Distinguished Professorship in Transplant Surgery. Hales had been a patient of **Bartley P. Griffith, MD**, who was appointed the inaugural recipient of the position. Griffith is professor of surgery and head, division of cardiac surgery. Several endowed positions have been established through generous gifts by medical alumni as well.

In virtually all cases, these significant gifts of endowed faculty positions



Elijah Saunders, '60

A high mark of distinction, a named professorship is often the interest of a grateful patient who is capable of making a large gift in support of a physician who has provided care to the patient or a loved one. . . In less frequent cases, endowed positions have been established through gifts from multiple donors in honor of a special person.

are made by a single donor who may make a single payment or multiple payments over three to five years. Professors are appointed to the positions after they have been funded in full. Professorships may be established with the promise of a future gift by bequest, although they cannot be filled until the funds are received.

In less frequent cases, endowed positions have been established through gifts from multiple donors in honor of a special person. An example of an endowed fund that is growing toward the professorship level of \$1.5 million is the endowment for **Elijah Saunders, '60**. This fund was established to serve as an endowment supporting the division of cardiology, hypertension section, with the provision that it would become a professorship once it reaches the minimum required level. The fund currently stands at slightly under \$1 million in contributions and pledges. Saunders is professor of medicine in the division and was recipient of the 2010 MAA Honor Award & Gold Key. Once additional contributions reach \$1.5 million, the Saunders Professorship will be established and exist in perpetuity. Parties interested in donating to the fund may contact the development office.

After an endowment is established and a faculty member is appointed to the role, the school holds an investiture ceremony that gathers the academic community, the donor's family and friends, as well as board members and other advocates of the school. The program features a formal investing of the faculty member by the dean and testimonials by mentors of the newly installed chair or professor. It also includes remarks by the donor. These events have become wonderful celebrations of accomplishment and philanthropy.

As the school continues its ascent through the ranks of the top-tier medical institutions, endowed chairs, professorships, and distinguished professorships provide the fuel to recruit and retain star physicians, scientists, and teachers who lead the way. 🏛️

Roth IRA Conversion

In January 1, 2010, the requirement of having \$100,000 or less in modified adjusted gross income to be eligible for Roth IRA conversions was eliminated as a result of the further enactment of the Tax Increase Prevention and Reconciliation Act of 2005 ("TIPRA") provisions. In addition, TIPRA created an incentive for Roth IRA conversions for 2010 as for that year only, a taxpayer may equally split the resulting income impact over the 2011 and 2012 tax years unless he or she elects to report it all in 2010. As the end of tax year 2010 approaches, traditional IRA owners should determine whether a full or a partial conversion to a Roth IRA will provide financial value as an income tax planning, retirement asset management, or estate planning and wealth transfer strategy.

With the passage of the Taxpayer Relief Act of 1997, the Roth IRA became available as a new type of retirement asset. It differs from the traditional IRA primarily in the form of taxation. Generally, traditional IRAs offer the ability to accumulate pre-tax dollars, allow earnings to grow tax deferred, and subject the future distributions to ordinary income taxation. Roth IRAs, however, offer the ability to accumulate after-tax dollars, either through contributions (subject to income eligibility) or conversions of traditional IRAs, and allow the earnings to grow tax free, exempting future qualifying distributions from income tax altogether. Traditional IRA balances may be converted to Roth IRAs either in part or as a whole, and there is no limit on how often one can convert IRA balances. Under certain circumstances, a conversion reversal within prescribed time limits, which is termed a recharacterization, can be utilized should a Roth IRA conversion not achieve the expected results.

Tax advisors and wealth planning practitioners have identified four general categories of Roth IRA conversions:


1) Strategic conversions—undertaken by IRA owners that view their IRA more as a wealth transfer tool to create a legacy for a future generation than as a retirement funding asset. The Roth IRA may provide for greater wealth accumulation potential as the owner is not subject to the required minimum distribution rules after attaining age 70½ and conversion related taxes can be paid from a non-IRA source without being treated as a gift to the IRA beneficiary.

2) Tactical conversions—executed to generate taxable income in the year of conversion (or the following two years, in the case of a 2010 conversion) that can offset unused special tax attributes such as net operating loss

carry-forwards, business and other ordinary losses, deductions and exemptions in excess of income, charitable contribution carry-forwards and non-refundable tax credits. The IRA owner uses the Roth IRA conversion to realize a favorable tax attribute for the IRA while at the same time reducing the amount of income tax liability on the conversion.

3) Opportunistic conversions—used to take advantage of economic conditions, such as short-term market volatility that causes an IRA investment portfolio to temporarily decline in value or in the situation where an IRA investment portfolio holds a stock which is expected to rapidly appreciate in value and thus can be converted and taxed at a lower value than expected in the near future.

4) Hedging conversions—implemented as a hedge against the likelihood of a higher income and or estate tax environment in the future. An income tax hedge might involve a situation where a married taxpayer currently filing a joint tax return expects to file a single income tax return in the future (has a smaller personal deduction in the future) or simply anticipates higher income tax rates in the future as seemingly is expected for the upcoming tax years. An estate tax hedge may result from the payment of conversion related income tax prior to the imposition of the estate tax by reducing the amount of the IRA that will be included in the taxable estate by the income tax paid upon conversion.

Whether your motivation is related to income tax planning, retirement asset management, or estate planning and wealth transfer, if you have not done so already, it is prudent to seek Roth IRA conversion analysis and advice from a qualified tax professional before the 2010 tax year comes to a close. 

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This column is prepared by Ken Pittman, a senior vice president and wealth planner at PNC Wealth Management. He provides fee-based wealth planning services and can be reached at 410-237-5324 or at kenneth.pittman@pnc.com

1940s **1943M:** Ralph K. Brooks of Annapolis has reached the age of 93 and continues sailing his boat HMS *Beagle*. He invites classmates to join him.

1946: John C. Rawlins and wife June of Seaford, Del., celebrated their 67th wedding anniversary in August. **1949:** Russell M. Tilley Jr., and wife Betty of Washington, D.C., celebrated their 60th wedding anniversary in July. Their only granddaughter started college in fall.

1950s **1950:** Miriam S. Daly of Albion, Mich., keeps busy with her large family as well as community activities including Red Cross blood drives.

Frank T. Kasik of Baltimore has been retired since 1992 and living in the Oak Crest retirement community since 1997. **1952:** Lawrence D. Egbert of Baltimore and six others affiliated with the Final Exit Network are standing trial for assisting some patients in hastening death. **Richard A. Sindler** of Towson, Md., continues doing whole body CT in Rockville, while wife Vicki is selling real estate with Long & Foster.

1953: Rafael Longo of San Juan is retired and spends one month in Newnan, Ga., for every two months in San Juan. He is in good health and visits the YMCA three days each week. He invites classmates to email him. **1954:** David A. Levy and wife Anne of Paris recently returned home after spending two months at their place in the south of France. Levy is a part-time consultant to an allergen extract manufacturing company and editorial consultant to *Revue Francaise d'Allergologie et Immunologie Clinique*, a journal covering topics in allergic and immunological diseases for all relevant specialties. **1956:** Theodore R. Carski and wife Trudi of Towson, Md., are enjoying life at Edenwald Retirement Community. **Gilbert E. Hurwitz** of Bethesda, Md., has been retired from his internal medicine and endocrinology practice since 2008. **Joseph S. McLaughlin** of Baltimore celebrated his 80th birthday at his home on the Maryland eastern shore in June with wife Irene, two sons, grandchild, and more than 150 extended family and friends. **Richard L. Plumb** of Houston sadly reports that wife Lois passed away



Joseph S. McLaughlin, '56, with wife Irene and their Davidge Elm at home on Maryland's eastern shore

on May 23 after a five-year illness. **Irvin P. Pollack** of Baltimore received the president's award from the American Glaucoma Society during its recent meeting in Naples, Fla. In addition, the Pollack Glaucoma Symposium was held in his honor in June at the Wilmer Eye Institute of the Johns Hopkins School of Medicine. Papers were presented by Pollack's former fellows who now hold leadership positions throughout the country. Pollack is emeritus professor of ophthalmology at the school and emeritus ophthalmologist-in-chief at Sinai Hospital since retirement in July. **1957:** Walter M. Shaw of Bonita, Calif., fondly recalls late classmate **Bill Holdefer**—the little guy with the brass stethoscope—examining classmates during the first two years of school.

1960s **1964:** Richard G. Shugarman of West Palm Beach, Fla., received the American Academy of Ophthalmology 2010 Secretariat Award. He also serves as an editor for eyewiki.

com, the academy's online resource. **Jonathan D. Tuerk** of Washington, DC, reports that retirement is good enjoying his five grandchildren. He adds that classmate **Perry Shelton** of Annapolis was a big help recently with a potential pediatrics issue. **1966:** **Stuart L. Fine** retired as professor and chair of the department of ophthalmology and director of the Scheie Eye Institute at the University of Pennsylvania on December 31, 2009. In January he and wife Ellie plan to relocate to their home in Carbondale, Colo., and Fine will spend one day each month in Denver working in the department of ophthalmology at the University of Colorado Medical Center. Daughter Karen lives in Winston-Salem with her husband and two children, while son Andy lives with his wife (a medical school classmate from Penn) and two children

in Boston. Fine looks forward to seeing classmates at the 45th reunion in spring. **Louis E. Grenzer** of Cockeysville, Md., announces the birth of his 13th grandchild. He opened a solo cardiology/medicine practice at GBMC on January 1. **Carl J. Orfuss** of Los Angeles is still working and plans to attend the 45th reunion. **1967:** **Gary M. Lattin** of Wyomissing, Pa., was recipient of the healthcare champion award, presented by the Berks Visiting Nurse Association. **Stuart H. Lessans** of Rockville, Md., reports that his twins—nine-year-old Matthew and Faye—have entered fourth grade at the Charles E. Smith Jewish Day School. Lessans enjoys being a "Mr. Mom." **Allan S. Pristoop** of Owings Mills, Md., reports that son Rafi continues as a teaching attending hospitalist at Downstate Medical Center and was recently married to third-year OB-GYN resident at Montefiore Medical Center. **Jack Stephens** of Newport News, Va., reports that son John will have his first book, *The Emerald Atlas*, published by Alfred A. Knopf Books for Young

Readers in April 2011. It's the first volume of a "Books of the Beginning" trilogy.

1968: Morton B. Blumberg of Snowmass Village, Oreg., is proud to announce the birth of twin granddaughters Hillary Grace and Emily Rose on May 4. **Ronald S. Glick** of Yardley, Pa., reports that daughter **Danielle** is a first-year medical student at Maryland, following graduation from Bucknell University. **1969:** Arnold I. Levinson of Radnor, Pa., associate dean for research at the University of Pennsylvania School of Medicine, was named recipient of the 2011 distinguished service award from the American Academy of Allergy, Asthma and Immunology.

1970s **1970:** John P. Caulfield of Los Altos, Calif., is consulting with biotech and pharmaceutical companies since retiring in January. He enjoys golf and being a grandparent. **William D. Hakkarinen** of Cockeysville, Md., received an award of special recognition from the Maryland Academy of

Family Physicians in June for his service as a delegate to the AAFP Congress for eight years and service in every officer capacity. **C.B. Marek** of Middle River, Md., reports the birth of his first grandchild—a girl. **1971:** Michael J. Schultz and wife Joan of Baltimore are delighted to report that son **Benjamin** has started medical school at Maryland as a member of the class of 2014. **1972:** Elizabeth Brown of Silver Lake, N.H., has been retired from the Boston University School of Medicine since July 2008. **Sumner H. Goodman** of Loudonville, N.Y., recently retired from the VA Albany Veterans Hospital after 32 years of government service. **1974:** James G. Chaconas of Annapolis, Md., reports that son Eric was married in October. Both son and daughter-in-law are physical therapists in St. Augustine, Fla. **Robert M. Guthrie** of Dublin, Ohio, recently published Hypertension and Dyslipidemia Management Essentials. He is professor of medicine at Ohio State University. **David L. Zisow** of Pikesville, Md., is certified in

robotic-assisted gynecologic surgery and continues teaching mid-career gynecologists laparoscopic minimally invasive skills at Northwest Hospital Center. **1975:**

Louis Fox of Dallas reports that daughter Michelle is working for Deloitte in Washington, D.C., after graduating from Vanderbilt in 2009. Younger daughter Alyssa is a sophomore at SMU majoring in environmental studies. **1976:** James W. Mark of San Antonio reports that son Jaron is in his third year of medical school at Meharry Medical College. **Susan M. Willard** of Kingsville, Md., reports that daughter Brook is doing an infectious disease and critical care fellowship at NIH after completing residency training. Son Jonathan married Sarah Mendiola. **1977:** Willarda V. Edwards of Baltimore has completed her year as president of the National Medical Association. She reports that the NMA is in good hands, as Maryland's Kweisi Mfume is the new executive director/CEO. **Richard J. Feldman** of Lanham, Md., recently formed a seven-member primary medicine group. **Martin I. Herman** and wife E. Lynette retired to Gulf Breeze, Fla., and on July 5th welcomed into the world their third grandchild. **1978:** Martin H. Kroll and wife Ellen moved to Boston where Martin is chief of lab medicine. Daughter Allison is an art teacher in New York City, while son Jonathan recently graduated from Texas Tech Medical School. **1979:** Bruce D. Behounek of Yardley, Pa., is senior director of medical affairs at ICON Clinical Research where he leads the cardiovascular therapeutic area group. Son Matt graduated from the University of Delaware with a BA in finance. **Jan M. Hoffman** of Wichita, Kans., who specializes in geriatric medicine, was re-elected to the directory of Best Doctors in America.

1980s **1980:** Michael R. Kessler of Denver enjoyed the 30th reunion last May. **James C. King Jr.**, of Columbia, Md., is working in pandemic influenza preparedness with the Department of Health and Human Services. This follows retirement from UMMS after 21 years. **Roy T. Smoot** of St. Michaels, Md., is chief development officer and direc-

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tor of procedural education for Hospitalist Management Group in Canton, Ohio. The physician-owned group manages more than 50 contracts in 18 states, employing more than 450 physicians. In joining the group, Smoot departed from the University of Maryland Medical System where he has spent the last three years. He and wife **Vicki** will continue living in St. Michaels. **1981: Paula Ehrlich** of Silver Spring, Md., received a master's degree from the Johns Hopkins Bloomberg School of Public Health in May and now enjoys a public health career as a medical officer for the federal government. ♦ **Elizabeth Elster Wack** and husband **Fred Fiastro** of Tucson are looking forward to daughter **Amelia's** spring graduation from Maryland. **1982: Darryl B. Kurland** of Princeton, N.J., reports that son Jason is in his second year of a clinical nephrology fellowship at Brown University, while son Brian left his position at Macy's to pursue an MBA at Northeastern University. ♦ **Charles T. Lucey II** is practicing preventive medicine

in Killenn, Tex., just outside of Austin. **1983: Peter G. Brassard** of Block Island, R.I., enjoyed his recent visit to Argentina and reports that he is soon headed to Croatia. **1984: David E. Lilienfeld** has relocated to San Diego to become chief medical safety officer at Ambit Biosciences. ♦ **Martin L. Schwartz** of Irondale, Ala., reports that son Brandon is a first-year medical student at Maryland. Son Adam is a film professor at the University of Alabama, while third son Justin is a second-year resident at Children's Hospital in Birmingham. **1985: Rita E. King** of Columbia, Md., works in a group cardiology practice at Good Samaritan Hospital. **1986: Stephen M. Fanto** and wife **Kelly** report that daughter Katelyn is working at PriceWaterhouseCoopers in New York City, following graduation from Villanova University last spring with a degree in accounting, finance, and economics. Son Derek is a sophomore at Muhlenberg College, enrolled in a joint-degree program enabling him to get a doctorate in physical therapy.

Son Craig is a highschool freshman. ♦ **Lisa A. Scheinin** of Redondo Beach, Calif., is three roller coasters short of having ridden every one in Japan. She also recently visited China and Ecuador. ♦ **Mark V. Smith** of Frankfort, N.Y., reports that he is back to work three years after a severe right shoulder dislocation, surgery, rehabilitation, and then re-injury. He is glad to be back, and reports that his family is all well but still home or being supported through college. **1987: D.V. Woytowicz** reports that he and family have moved to Wexford, Pa. **1989: Tracy A. Berg** of Spokane, Wash., reports that 2010 has been a stable year, as she continues with her general and vascular surgery practice. Son Brian Magnuson is playing football at Occidental College. ♦ **Neri M. Cohen** and wife Ilene of Owings Mills, Md., are empty-nesters now that son Joel is attending Syracuse University. Daughter Dena is a senior at Ithaca College. ♦ **J. William Cook IV**, of Catonsville, Md., practices with Seton Medical Group and has two children attending West Virginia University. ♦ **Stephen Hatem** of Cleveland was elected president of the American Society of Emergency Radiology. ♦ **Jean Marie Naples** of West Haverstraw, N.Y., is undergoing hyperbaric oxygen treatments for resolution of the remaining traumatic brain injuries sustained in an October 2005 auto accident.

1990s: 1992: Joseph L. Manley of Bethesda, Md., married Amanda Zeller, OD, in October 2009. ♦ **Virginia Powel** of Roanoke, Va., reports that daughters Lilly, age nine, and Laurel, age six are well. Powel is medical director for the PICU at the Carilion Clinic where Alice Ackerman, MD, is director of pediatrics. ♦ **Ronald** and **Lisa Rakowski** have been in Frederick, Md., for 10 years—Ron practicing emergency medicine and Lisa pediatrics. They invite friends and classmates to keep in touch. **1993: Susma S. Vaidya** and husband **Kelly Stone**, '98, live in Bethesda, Md. Vaidya works in general practice at Children's Hospital in Washington, DC, while Stone is a pediatric allergist/immunologist at NIH in charge of the AI fellowship program. **1994: Jason A.**

Kaplan and wife Stephi live in Cockeysville, Md., with daughters Jordan and Charlotte.

1995: Mitesh Kothari of Hagerstown, Md., reports that **Lisa Miller, '96**, has recently joined his OB/GYN practice. Kothari and wife Erin have three children: Kendall, age 10; Jack, age eight; and Ryan, age three. They invite classmates for a visit when passing through Hagerstown.

1996: Karen Beasley and husband John of Baltimore celebrated the birth of Chloe LeComte Holtzman, their second, on November 24, 2009. **Christian Bounds** of Salisbury, Md., is looking forward to the 15th reunion next spring.

Joy Collins of Philadelphia recently had a commitment ceremony with partner Julie Markovitz.

1997: Laurie M. Bothwell of Bel Air, Md., ran with the Leukemia & Lymphoma

Society Team-In-Training during the Marine Corps Marathon in October, her sixth. She has raised \$50,000 over the past five years.

Sapna Patel Kuehl and husband **Peter Kuehl, '02** live in Columbia, Md., with their two children. Sapna is internal medicine residency program director at St. Agnes Hospital. **1998: Camil Sader**, a surgeon in Pompano Beach, Fla., reports that his fifth upgraded version of Dr. Rounds is now available. The healthcare application tracks admissions, daily visits, diagnoses, procedures, type of service, and maintains uninterrupted billing charges of patients. He invites colleagues to visit the website www.drrounds.com. **1999: Thomas D. Horst** and wife Indiya of Miami celebrated the birth of Thomas Mathias on May 15.

Mallory Williams of Toledo, Ohio, is

associate professor of surgery and chief of trauma, critical care & acute-care surgery at the University of Toledo Medical School.

2000s **2000: Joanne D. Saxour** of Daytona Beach, Fla., received the 2010 Pfizer Teacher Development Award from the American Academy of Family Physicians Foundation. The award is presented to practitioners who give of themselves to teach, mentor, and inspire residents and students. A practicing family physician in Port Orange, Saxour serves as part-time instructor at Florida State University College of Medicine. **Matthew D. Sedgley** of Stillwater, Minn., enjoyed the 10-year reunion in spring. He continues as medical director for the Stillwater marathon, and reports that wife Julianna and children still put up with

him. **2001: Sara E. Benjamin** and husband Michael Tracton of Columbia, Md., proudly announce the birth of Nora Rose on May 9. Benjamin practices neurology and sleep medicine. **2002: Scott M. Katzen** of Columbia, Md., joined a private cardiology group in Annapolis after completing post-graduate training at Maryland which included a year as chief resident in medicine and a cardiology fellowship. **Matthew Smith** and wife Shelley welcomed Sienna, their first daughter, in April. Smith enjoys practicing as a hospitalist in Richmond, Va. **2003: Rachel Hartman** and husband Isamu of Dallas welcomed into the world Yehoshua, their fourth child, in June.

♦ **Sachin Kalyani** and wife Rita of Elkridge, Md., announce the birth of Sonia Jaya, on May 14. ♦ **Sarah A. Kremen** of Los Angeles is a part-time clinician at the UCLA Mary S. Easton Center for Alzheimer's Disease Research, following completion of a fellowship in behavioral neurology and neuropsychiatry at UCLA Greater LA VAMS. ♦ **Mohammed Manasawala** of Yardley, Pa., works at the Radiology

CALLS FOR

2011 Awards Nominations!

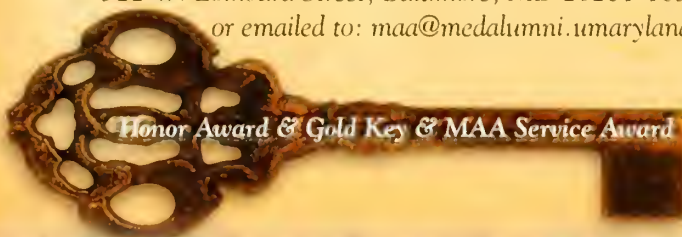
Alumni, faculty, and friends are invited to send in their nominations for two MAA-sponsored awards by November 1, 2010. The Honor Award & Gold Key is presented to a living graduate for outstanding contributions to medicine and distinguished service to mankind. Factors considered in the selection process include impact of accomplishments, local, national, and international recognition, supporting letters, and publications. The Distinguished Service Award is presented for outstanding service to the Medical Alumni Association and University of Maryland School of Medicine. The awards will be presented during the annual Reunion Recognition Luncheon on Friday, May 6, 2011. Letters of nomination for both awards must include a curriculum vitae and should be addressed to:

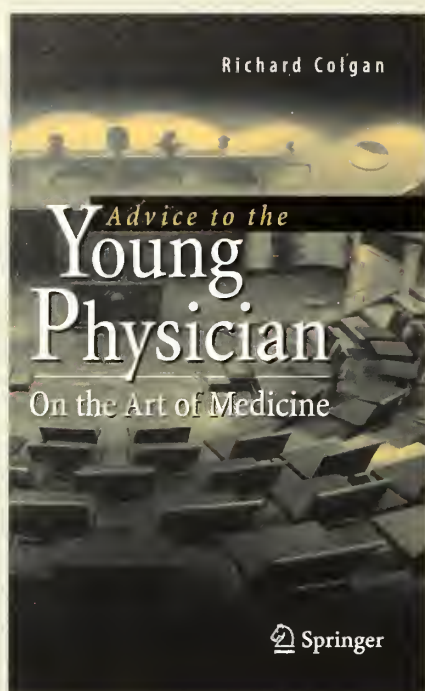
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Advice to the Young Physician

Written by Richard Colgan, MD, *Advice to the Young Physician* reveals how to make the transition from technician to healer as taught by some of medicine's greatest teachers. Colgan is an associate professor at the University of Maryland School of Medicine and director of undergraduate education in the department of family and community medicine.

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Group of Abington. **Matthew Ortman** is an electrophysiologist at Cooper University in Camden, N.J. **2005: Amer Malik** of Seattle, who specializes in ischemic and hemorrhagic stroke care, has joined the neuroscience institute at Swedish, one of

the region's largest and most comprehensive non-profit health care providers. Malik also has an MBA in health care management and finance. **2006: Jennifer M. Coughlin** of Lutherville, Md., is a research fellow in the department of psychiatry at

Johns Hopkins, following residency training there. Her focus is employing PET-based imaging technology to investigate psychiatric disease states. **Adam D. Friedlander** of Baltimore married Megan Passo in Atlanta on August 1. Friedlander is chief resident of the combined program in emergency medicine and pediatrics at Maryland, while his wife is a high school mathematics teacher in Harford County. **Elise A. Malecki** of Milwaukee, Wis., is planning a gastroenterology research fellowship at the University of Illinois Chicago in July 2011. **Mark Schneyer** and wife Maytal of Charlottesville, Va., announce the birth of Alexander Tzvi on April 6. **2007: Timothy Chizmar** of Bel Air, Md., is employed with Upper Chesapeake Emergency Physicians after completion of residency training at Maryland. **Amanda and Bradley Kramer** of Oakdale, Pa., have joined Children's Community Pediatrics in Pittsburgh. **Adriana and Ben Laser** of Ann Arbor, Mich., announce the birth of son Trent on June 23. **Troy Sofinowski** of Oklahoma City, Okla., married Delaney Shelton Smith on August 15, 2009. He has two stepchildren, Saylor Bree, age eight, and Boston Gray, age five. **2008: Eric Orlowsky** will be serving a rheumatology fellowship at Duke University Medical Center beginning July 2011. **2009: J.D. Hess** and wife Amy of Wilmington, Del., announce the birth of son Edwin Daniel in April. 

Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds; and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

Remembered

Nathan Schnaper, '49

Nathan Schnaper, '49, a distinguished psychiatrist and revered member of Maryland's faculty since 1954 whose signature wardrobe included red sox and matching bow tie, died on August 23 at the age of 92.

Born in Baltimore, Schnaper graduated from Polytechnic Institute in 1936 and received a BS degree at Washington College in Chestertown, Md., in 1940. He taught science for one year at Patterson Park High School before enlisting in the U.S. Army during World War II. He served in the Pacific Theater with the 118th General Hospital of Johns Hopkins University as the NCO-in-charge of laboratory until discharge in 1945. He returned to Baltimore and enrolled at Maryland, graduating with honors in 1949. Schnaper served a rotating internship with the U.S. Public Health Service Hospital in Baltimore and received residency training in psychiatry at Sheppard Pratt Hospital from 1950 to 1953.

In 1954, he became an instructor in psychiatry at Maryland, was promoted to associate in psychiatry in 1956, associate clinical professor in 1967, and professor in 1974. In 1972, Schnaper was named chief of the Maryland Institute for Emergency Medicine psychiatric branch and, in 1976, was made chief of psycho-social services at the cancer center. He received another appointment—professor of oncology—1982. Teaching also included appointments as instructor in psychiatry at Johns Hopkins School of Medicine from 1953 to 1955 and 1960 to 1961.



Research interests focused on psychological implications of severe and multiple trauma, cancer, and AIDS, as Schnaper worked with terminal patients as well as the families. He was a frequent lecturer on these and related topics, and his teaching of residents and oncology fellows centered on helping them overcome insecurities of specializing in a field where success is often measured more in easing pain and suffering rather than curing a patient. Schnaper retired in 1996 but continued working part time at the Marlene & Stuart Greenebaum Cancer Center until a few weeks before his death.

Schnaper received numerous awards including the distinguished alumnus award from Washington College in 1975 and humanitarian of the year by the Arlene R. Wyman Guild in 1983. The Nathan Schnaper Summer Scholars Program was established in his honor at Maryland's cancer center. Publications included *I Pay You to Listen, Not Talk: A Psychiatrist's 50-Year Odyssey* in 2003.

As a member of the class of 1949, Schnaper was an active alumnus and organized many of his class reunions. He was elected to a three-year term on the MAA Board of Directors in 1977 and was a member of the John Beale Davidge Alliance—the medical school's society for major donors. Survivors include wife Roslyn, son H. William, '75, Lauren A., '81, five grandchildren, and two great-grandchildren. He was preceded in death by one grandson. 🏠

Manuel Levin, '34

Internal Medicine
Baltimore, Md.
July 28, 2010

Dr. Levin was an instructor in medicine at Maryland and served on the staffs of Sinai and Baltimore County General Hospitals. During the medical school's bicentennial convocation ceremony in 2007, Levin represented his class on the stage and was the most senior-ranking graduate to participate. Survivors include wife Ethel, two daughters, five grandchildren, and 14 great-grandchildren.

Albert Shapiro, '37

Dermatology
West Palm Beach, Fla.
March 12, 2010

Dr. Shapiro completed post-graduate training in dermatology at New York University's Skin and Cancer College. During World War II, he served as chief of dermatology with the U.S. Army 148th Field Hospital, treating a population of lepers in Oahu, Hawaii. The hospital was later transferred to Saipan where he remained until the end of the war. After his discharge, Shapiro returned to Baltimore and entered private practice. During his career he also served as clinical professor of dermatology at Maryland, teaching residents and students in the outpatient clinic. After retirement in the early 1990s, Shapiro moved to Palm Beach, Fla., but frequently attended grand rounds at his alma mater. He joined the John Beale Davidge Alliance—the school's society for major donors—by endowing a professorship in immuno-dermatology. In addition to his involvement at Maryland, Shapiro served as president of the Associated Jewish Charities of Baltimore and the Baltimore Friends of Hebrew University. Board appointments included the Baltimore Symphony Orchestra, Baltimore Hebrew Congregation, and the Park School. Survivors include wife Diane, two daughters, two stepdaughters, and one step-granddaughter. His marriage to Sylvia Seldman ended in divorce.

Arnold F. Lavenstein, '39

Pediatrics & Allergy/Immunology
Chevy Chase, Md.
February 22, 2010

Dr. Lavenstein received pediatrics residency training at Maryland and afterwards established a private practice in Baltimore. He developed an interest in allergy and immunology, and his efforts contributed to the creation of the allergy clinic at Johns Hopkins. In 1962, Lavenstein's research showed that the antihistamine Cyproheptadine could also be used to enhance weight gain and linear growth in children. He continued practicing into the 21st century. Lavenstein is survived by wife Eleanor, two sons including **Bennett L., '70**, and his daughter-in-law **Judy Gadol, '75**, and two grandchildren.

Raymond B. Goldberg, '43M

Obstetrics & Gynecology
Baltimore
December 19, 2009

Sinai Hospital in Baltimore was the site of Dr. Goldberg's internship and residency training in OB/GYN, and he later served on the staff at Sinai in addition to his private practice. Goldberg is survived by wife Gertrude, four children, and nine grandchildren.

Joseph H. Brannen, '45

Urology
Valdosta, Ga.

Dr. Brannen interned at the University of Alabama-Jefferson Hospital in Birmingham, and afterwards joined the U.S. Army Medical Corps, serving in Germany from 1946 to 1948. Upon discharge, Brannen received residency training at Grady Memorial Hospital in Atlanta, followed by fellowship training at Emory University. He opened a clinical urology practice and later was elected president of the Georgia Urological Society. Brannen enjoyed hunting, fishing, tennis, and metal (copper) sculpting. He and wife Vivian had three children and four grandchildren.

S. Norman Sherry, '51

Pediatric Psychiatry
Cambridge, Mass.
April 5, 2010

Dr. Sherry interned at Sinai Hospital in Baltimore and split residency training in pediatrics between Sinai and Grace New Haven Hospital. He received two years of fellowship training in child psychiatry at Beth Israel Hospital in Boston. In addition to private practice, Sherry served as head of pediatrics at McLean Hospital and Gaebler Child Center, assistant clinical professor at Harvard Medical school, and vice president of the National Board of the Child Welfare League of America. In recognition of his contributions as a member of the Academy of Pediatrics Task Force on Children and Television, an award was created in his honor for presentation beginning in 2000. Sherry enjoyed playing tennis, writing poetry, sketching, and watching movies. He is survived by wife Ruth, three daughters, and three grandsons.

David R. Taxdal, '52

Neurosurgery
Winter Haven, Fla.
July 6, 2010

Prior to medical school and during World War II, Dr. Taxdal served as a frogman in the U.S. Navy's underwater demolition team—forerunner of the SEAL program. The directive of the unit was to sink Japanese ships in their home harbor during an expected U.S. invasion of Japan. Upon medical school graduation, he trained at Johns Hopkins University where he was chief resident and later served as instructor. Taxdal moved to Florida to open a clinical practice, becoming one of the first fully-trained neurosurgeons in central Florida. He served on the staffs at Winter Haven and Lakeland General hospitals. Taxdal was a member of the John Beale Davidge Alliance—the medical school's society for major donors. He enjoyed pre-Columbian art and frequently traveled to Central America to collect artifacts which were later gifted to the Polk Museum of Art in Lakeland. Taxdal also enjoyed flying

in memoriam

his plane and playing bridge, tennis and golf. He was an avid reader and focused on world affairs, art, music, and literature. Taxdal is survived by wife Lucia, six children, and nine grandchildren.

Samuel Blumenfeld, '53

Psychiatry

Baltimore

July 2, 2010

Sinai Hospital in Baltimore was the site of Dr. Blumenfeld's internship, and his residency training was served at both Sinai and Sheppard Pratt Hospital where he later served as a staff psychiatrist. Blumenfeld was an attending physician at the Greater Baltimore Medical Center and a consultant at St. Joseph's Hospital. After retirement he consulted with the Social Security Administration in Woodlawn. Blumenfeld enjoyed playing bridge, classical music, attending opera, furniture refinishing, and cooking. He is survived by wife Wilma, brother **Herbert, '54**, four children, and eight grandchildren.

George T. Smith, '56

Cardiology, Pathology,

Administrative Medicine

Palm Beach Gardens, Fla.

March 20, 2010

The Royal Victoria Hospital in Montreal was the site of Dr. Smith's internship, followed by residency training at Harvard Medical School where he continued fellowship training and served as an instructor. Smith enjoyed membership in the American College of Cardiology and American Board of Anatomic Pathology. In 1966, he began lobbying the Nevada governor, legislature, and local community for the establishment of a medical school in Las Vegas. The University of Nevada School of Medicine opened in 1969 with Smith serving as dean. In 1975, he was named a Sloan Fellow and attended the Sloan School of Management at MIT. He resigned his deanship in 1977 to become dean of the medical school in Addis Ababa, Ethiopia. Smith returned to America in 1979, accepting an appointment as associate dean, director

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of CME, and professor of pathology at the University of Alabama Birmingham School of Medicine. He retired in 1999. Hobbies included sailing, swimming, painting, and photography. He and wife Pamela had four children.

James P. Laster, '57

Neurology

Palo Alto, Calif.

September 6, 2010

Dr. Laster attended medical school after being seriously wounded during the Korean War while serving as a sergeant in the 32nd Infantry Regiment. He remained at Maryland after medical school graduation for internship and residency training in internal medicine, followed by a fellowship with the U.S. Public Health Service at Middlesex Hospital in London. Laster spent an additional year at National Hospital in Queen Square, London, as a clinical clerk in neurology. He returned to the U.S., completing a three-year fellowship in neurology at the University of Washington Hospital in Seattle beginning in 1961. From 1964 until retirement in 1998, Laster was with the Permanente Medical Group in Santa Clara. Appointments included chief examiner for the American Board of Psychiatry & Neurology from 1985 to 1996, chief of the department of neurology at the Santa Clara Medical Center from 1964 to 1988, and clinical professor of pediatrics and neurology at Stanford University Medical Center where he remained until 1999. Laster coached youth soccer and was an assistant Scoutmaster in Palo Alto. He enjoyed reading and toying with computers. The Baltimore native was preceded in death by wife Betsy and is survived by eight children and 15 grandchildren.



Alignment

The Key to the Success of The University of Maryland Medical System

Co-authors Morton I. Rapoport, '60, former CEO of UMMS, and Stephen Schimpff, MD, former CEO of UMMC, trace the growth of University of Maryland Hospital from its birth as a private, not-for-profit enterprise in 1984 to a thriving, nine-hospital system today.

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in memoriam

John N. Browell Jr., '61

Cardiology
Marshfield, Wis.
July 29, 2010

Prior to medical school, Dr. Browell served in the U.S. Navy during the Korean War aboard the USS Philippine Sea. Upon graduation, he interned at the Henry Ford Hospital in Detroit and received residency training at The Great Lakes Naval Hospital. In 1967, he joined the Marshfield Clinic as a cardiologist and continued to practice until retirement in 1994. Browell enjoyed reading, photography, and travel. He was a lover of jazz and classical music. Browell was preceded in death by wife Ann and is survived by one daughter.

Angela W. Clarke, '61

Family Medicine
Las Vegas
June 17, 2010

Dr. Clarke practiced family medicine in north Las Vegas. She served as president of the Clark County Medical Society, president of the Charles I. West Medical Society of the National Medical Association, and had appointments as associate professor at both UCLA and the University of Nevada, Reno.

Kuo-Kuang Lin, '76

Family Medicine
Brookline, Mass.
September 26, 2009

Cheryl A. Rubin, '78

Surgery & Emergency Medicine
Milford, Conn.
May 27, 2010

Phyllis B. Brandchaft, '82

Internal Medicine
Kensington, Md.
March 16, 2010

Washington Hospital Center in Washington, D.C., was the site of Dr. Brandchaft's residency training in internal medicine. For several years she worked as an internist at

Kaiser Medical in Kensington, but for the last 12 years was a staff physician at the U.S. Department of State in the Foreign Service Clinic. Brandchaft was survived by husband Dr. Arthur Beau White, who died on May 7, daughter Holley, and sister **Deborah Brandchaft Matro, '72**.

Faculty

Merill J. Egorin, MD

Cancer Researcher
Shadyside, Pa.
August 7, 2010

An internationally renowned cancer researcher, Dr. Egorin served on Maryland's faculty from 1981 to 1998 and was a founder of Marlene and Stewart Greenbaum Cancer Center. Born and raised in Baltimore, Egorin earned a bachelor's degree in 1965 and medical degree in 1969—both from Johns Hopkins University. He joined Maryland's faculty in 1981 after internship and residency training at Johns Hopkins and a fellowship at the Baltimore Cancer Research Center. Egorin was appointed head of the division of developmental therapeutics in 1982 and served in this capacity until 1998 when he was named co-director of the University of Pittsburgh Cancer Institute Molecular Therapeutics and Drug Discovery Program and director of its clinical pharmacology analytical facility. Egorin's specific interests focused on antineoplastic agents. He was an avid sports fan, enjoying the Colts and Orioles while in Baltimore as well as the Steelers and Pirates in Pittsburgh. Survivors include wife Karen, two children, and four grandchildren.

The Frank C. Bressler Legacy Council

Ensure our Tradition of Excellence, for Generations to Come.

The Frank C. Bressler Legacy Council honors alumni, faculty, grateful patients and friends who have made a gift commitment through their estate plans or other planned giving vehicles to support the University of Maryland School of Medicine.

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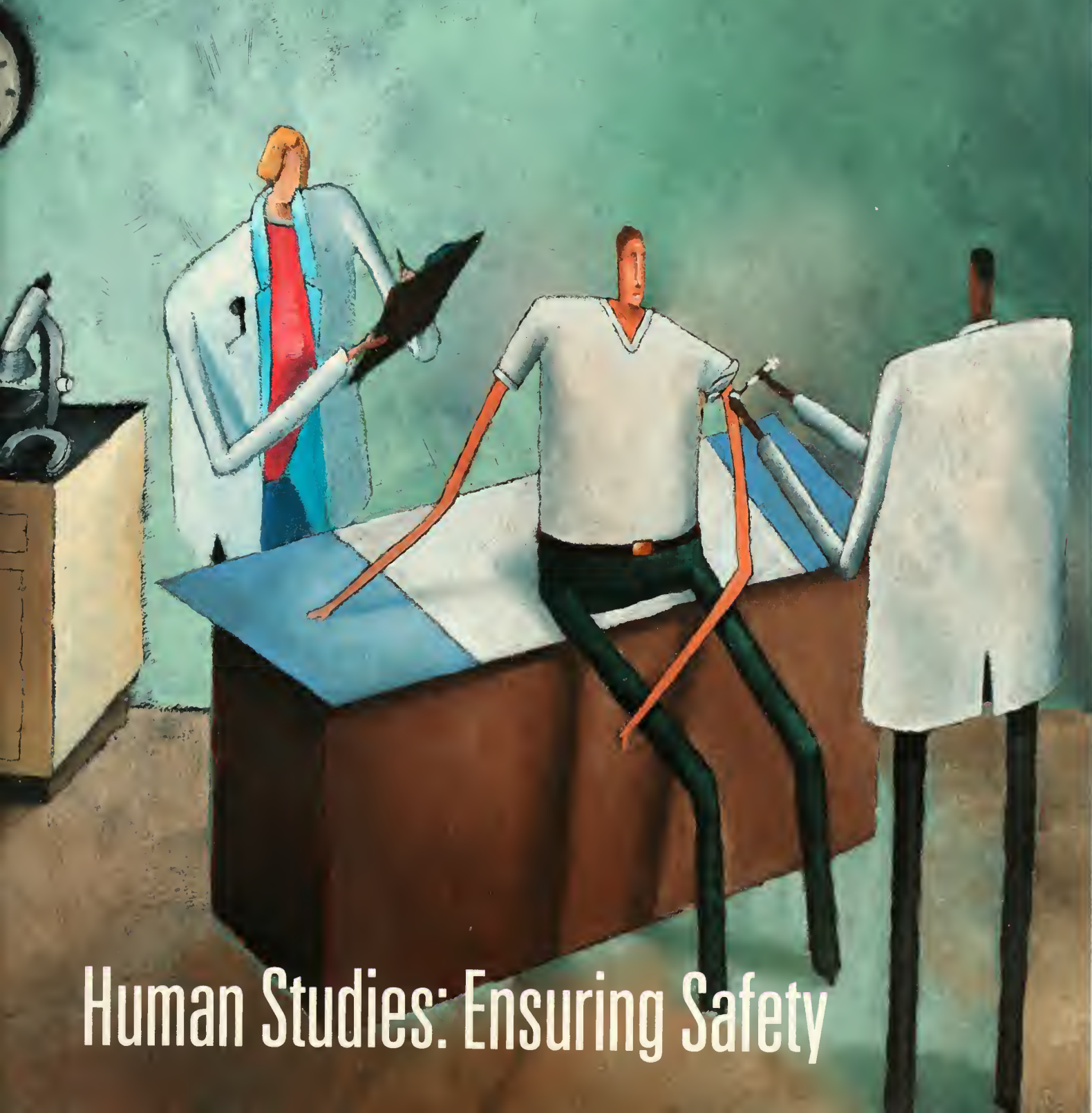
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Human Studies: Ensuring Safety



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Medicine Bulletin

University of Maryland Medical Alumni Association & School of Medicine



features

Human Studies: Ensuring Safety 8

With more than 1,500 research projects conducted at Maryland each year, volunteers can rest assured knowing that the institution is doing everything to ensure patient safety. In fact, Maryland was among the first 20 research institutions accredited in 2005 by the Association for the Accreditation of Human Research Protections Programs.

Ancient Faces of Davidge Hall 14

Generations of students recall gazing up at the busts resting on the hearth in Chemical Hall. While serving as inspiration to some, others often wondered: "Who are these seven figures and what do they represent?" Historian and writer Wayne Mullan takes a crack at providing an explanation.

The Historical CPC: Nearly Two decades of History Through Medicine 20

Philip A. Mackowiak, '70, thought he might be on to something in 1995 when he staged a clinicopathological conference on a mystery subject who turned out to be Edgar Allan Poe. Combining medicine and history, the feedback was so positive that he scheduled a second and then a third. Now, with number 18 right around the corner, Maryland's Historical CPC is recognized as one of the nation's most popular medical conferences.

Faculty Profile: Miriam Blitzer, PhD 22

It's in the Genes

Science has advanced quite a bit since Miriam Blitzer, PhD, earned a chemistry degree in 1974. Encouraged to continue her education in a field called genetic counseling, her journey has included roles as teacher, researcher and, most recently, heading a metabolic diseases diagnostic laboratory at Maryland. And what does she enjoy most? Teaching.

departments

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Several new clinical initiatives are underway at the school and University Physicians, Inc. (UPI) that highlight our emphasis on becoming a more efficient, more patient-focused physician organization. The provisions of the recently passed health care reform legislation will make this emphasis even more important in the future. I expect to see greater emphasis on quality, access, and satisfaction measures for patients, and we will care for patients based on these standards.

To that end, and in response to patient survey data, we have launched a major service excellence initiative which we hope will strengthen our patients' satisfaction with their experiences here. We are developing new infrastructure and processes to improve the patient experience, such as minimizing wait times at appointments and reducing the length of wait for new and follow-up appointments. In addition, we will institute a common patient registration process, with information collected at any ambulatory site and shared across the practices.

Complementary to common patient registration is our move toward electronic medical records (EMR), which allows for storage, retrieval and modification of patient medical records across the practice plans, indeed throughout the health care industry. Our EMR program is up and running in family medicine. General internal medicine and medical subspecialties will be


We are developing new infrastructure and processes to improve the patient experience, such as minimizing wait times at appointments and reducing the length of wait for new and follow-up appointments.

next, and the other ambulatory practices will be rolled out within a year. The benefit to this technology is that it gets us closer to a more contemporary practice style, and it is simply a better way to capture and share clinical information with physicians and patients. There are federal incentives for adopting EMRs, and we are on the correct path to optimize receipt of those incentives, while providing better service to our patients.

We are poised to launch an exciting new service of comprehensive physical examinations, physician consultations, and testing called the executive health program. The objective of this program is to provide a superlative integrated approach to prevention and the early detection of disease using a model of exceptional service excellence provided by our outstanding physicians using leading-edge technologies and facilities. The program consists of four key principles: excellence, personalization, convenience, and a focus on prevention.

The patient's experience will start with a pre-appointment phone consultation with a program clinician to identify each individual's healthcare needs and goals. Their one-day customized visit will be based on individual concerns and priorities, with same-day test results and a wrap-up consultation with an internist. The focus on prevention will start with paying special attention to cardio-metabolic risk and a consultation with a senior cardiologist, followed by cancer, bone health, and skin health screening. In addition, there will be a consultation with an advanced care pharmacist with expertise in nutraceutical medicines. The program will be launched by UPI and directed on an interim basis by **Mandeep R. Mehra, MBBS**.

One of the major clinical goals outlined in our new strategic plan *Taking a Quantum Leap Forward* is to build new and/or expand our centers of clinical excellence. Our newest and most ambitious is the Maryland Proton Treatment Center (MPTC). In October we announced that the school, through the radiation oncology practice group, is playing a key role in plans for an estimated \$200 million project to bring to Maryland for the first time the advanced radiation technology in cancer treatment-proton therapy. The center will be the first in the Baltimore-Washington region to offer proton therapy, the state-of-the-art technology in radiation treatment for cancer. Radiation oncology faculty at the center could begin seeing patients as early as January 2014. Proton therapy is a non-invasive treatment performed on an outpatient basis. Patients typically receive approximately 30 treatments during a 4-5 week period. Each treatment requires a 25-minute appointment after which the patients are free to carry on their daily affairs. MPTC will treat approximately 2,000 patients annually.

Providing excellent care to our patients is of utmost importance, as is providing excellent care to the Maryland family. To that end, last May we opened an immediate care center providing a more convenient way to access non-emergency health care services. UMaryland Immediate Care Center is run by faculty of the department of family & community medicine. Open five days a week, faculty, staff and students of the university, medical system, and UPI, can be seen for non-emergency and non-chronic issues. If a problem requires specialty care, patients will be referred to specialists at the school. 



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
University of Maryland
John Z. and Akiko K. Bowers Distinguished
Professor and Dean, School of Medicine

EVENTS

Perman Installed as University President

Jay A. Perman, MD, was installed as the sixth president of the University of Maryland Baltimore (UMB) on November 9. The event was staged at the Hippodrome Theater in downtown Baltimore—just a two-minute walk from campus. Perman officially took office on July 1. Dignitaries on hand for the installation included Baltimore mayor Stephanie Rawlings-Blake. Perman returned to Baltimore from the University of Kentucky where he was dean and vice president for clinical affairs at the College of Medicine from 2004 to 2010. From 1999 to 2004, he served as chairman of Maryland's department of pediatrics. For those wondering how Perman can be just the sixth president of a university now more than 200 years old, the answer is simple: Prior to 1981 one president was appointed to preside over both campuses in Baltimore and College Park, which together were considered one university. Since then the two campuses have had their own presidents.



UMB President Jay A. Perman, MD

EVENTS

Alumni Connecting with Students Through LinkMD

LinkMD, a network designed to help students prepare for professional life through social interactions with faculty and alumni, has built a solid base of support since inception three years ago. Faculty and alumni register to stage events in their homes or other locations depending on the number of student guests. After learning about the host's background and the information shared during the event, students are invited to register on a first-come, first-served basis. Gatherings can range in size from a dinner party of four to 50 or more in Davidge Hall. To learn more about hosting your event, visit <http://web.me.com/link-maryland>.



Eight medical students attended a LinkMD event at the home of Progoras Cutchis, '83 on Saturday, November 7

EVENTS

Morhaim Re-elected to Fifth Term in Maryland Assembly

Faculty member Dan Morhaim, MD, FACEP, the only physician in the 188-member Maryland General Assembly, was re-elected in November to his fifth four-year term in the House of Delegates. In this capacity he serves as deputy majority leader and house chair of the joint committee on health care delivery and finance. Morhaim is board-certified in internal medicine and emergency medicine and works clinically primarily at Health Care for the Homeless in downtown Baltimore.



Dan Morhaim, MD, FACEP

EVENTS Psychiatry Department Celebrates 60th Anniversary

It was back in 1949 when the Maryland legislature approved a \$25 million appropriation to improve the state's mental hospitals. The earmark included \$3 million to establish a department of psychiatry at Maryland. One year later **Jacob E. Finesinger, MD**, was named chairman, and the rest is history. The department celebrated its 60th anniversary on September 16, 2010, with a daytime scientific program and evening gala. The academic program included general sessions on public policy and neuroscience—the latter featuring a presentation by **William Carpenter, MD**, professor of psychiatry, entitled “Deconstructing Schizophrenia on the Road to DSM V.” More than 500 attended the evening celebration at the Marriott Inner Harbor, and each attendee received a copy of *Changing Times Changing Minds; 100 years of Psychiatry at the University of Maryland School of Medicine*. The 500-page book was commissioned by department chairman **Anthony F. Lehman, MD**, and was written by Pat McNees.



Bruce Taylor, MD, department chair Anthony F. Lehman, MD, Irving J. Taylor, '43M, Richard L. Taylor, '75, and Ronald J. Taylor, '73, at the gala celebration

EVENTS Fine, Susel & Pass, to be Honored by MAA

Three members of the class of 1966 were named recipients of the Medical Alumni Association's annual awards for 2011. The MAA Honor Award & Gold Key, presented since 1948 for outstanding contributions to medicine and distinguished service to mankind, is being awarded to **Stuart L. Fine, '66**. For 18 years Fine served as professor and chairman of the department of ophthalmology and director of the Scheie Eye Institute at the University of Pennsylvania School of Medicine. His research focused on diabetic retinopathy and macular degeneration, and in his position he also headed the E.M. Kirby Center for Molecular Ophthalmology, the first molecular biology center focused on the development of gene therapy for hereditary causes of vision loss. Under Fine's leadership, Penn became one of the country's leading clinical and research institutions. **Richard M. Susel, '66** and **Carolyn J. Pass, '66**, are co-recipients of the MAA Distinguished Service Award, presented since 1986 for



Stuart L. Fine, '66

service to the MAA and medical school. Married after their first year of medical school, Susel served as class president while Pass was secretary. Since graduation they have taken the lead in organizing class reunions, and from 1987 to 1990, Pass served on the MAA Board of Directors. Both are members of Maryland's faculty, Susel in the department of ophthalmology and Pass in dermatology. Several years ago they endowed an award in the department of medicine in memory of Pass's father **I. Earl, '37**. And in 2008, they established the academy of educational excellence to promote and reward superlative teaching at Maryland. A portion of this gift provides financial support for curriculum enhancements, and in recognition of this gift the classroom suites in Howard Hall now bear their names. The awards will be presented during the MAA Recognition Luncheon during reunion on May 6.



Carolyn J. Pass, '66 and Richard M. Susel, '66

EVENTS

New Forensic Medical Center Opens at BioPark

With its official opening ceremony Sept. 21, the Maryland Forensic Medical Center became the latest addition to the 10-acre University of Maryland BioPark, located on Baltimore Street just west of Martin Luther King Boulevard. The \$44 million forensic-science facility, under the Maryland Office of the Chief Medical Examiner, is one of the nation's largest stand-alone medical examiner services. It replaces the existing center located on Penn and Pratt streets. **David Fowler, MD**, the state's chief medical examiner, is a member of the medical school faculty. 🏢



World's First Robotic-Assisted Aortic Valve Bypass

Cardiac surgeons at the medical center became the first in the world to use a surgical robot to help perform minimally invasive aortic valve bypass surgery on October 4.

The patient was 83-year-old John Warner of Bel Air, Md., who suffered from aortic stenosis that caused difficulty breathing. He had undergone previous heart surgery and faced several other medical problems that would have made conventional, open-heart aortic valve replacement very risky. Within hours of having the minimally invasive, robotically assisted procedure, Warner was awake and talking to his family. He left the hospital one week later, with his breathing much improved.

James S. Gammie, MD, associate professor of surgery at the medical school and director of the University of Maryland Center for Heart Valve Disease, led the team that performed the aortic valve bypass.

The robot extends the surgeon's reach deep into the chest to access the aorta through a three-inch opening, smaller than would have been possible without the robot. And surgeons did not need to stop the heart during the procedure; so a heart-lung machine was not necessary.

"Using the robot enables us to attach the bypass tube to the aorta with greater precision than by hand. This procedure is an excellent alternative for higher-risk patients with aortic stenosis," says Gammie.

More than 70,000 people in the United States undergo aortic valve procedures each year. One approach is to replace the defective valve. Another is to bypass it entirely. Some patients who have had aortic valve bypass continue to do well more than 25 years after their surgery. Gammie has performed more than 60 valve bypasses since 2003. Using the surgical robot for part of the operation is a further innovation.

Another key advantage of a bypass over valve replacement is the reduced risk of stroke since the defective valve is not touched or manipulated.

"As we are able to adapt the use of the surgical robot to more cardiac operations, we will be able to provide more patients with a minimally invasive procedure that requires a shorter recovery time," says **Johannes Bonatti, MD**, director of coronary surgery and advanced coronary interventions at the center and a professor of surgery at the medical school. Bonatti is one of the world leaders in using the surgical robot to perform heart surgery. He was a pioneer in performing double and triple vessel coronary bypass operations with the robot, which means that the operations are performed in a minimally invasive way without a large incision.

"The addition of robotic assistance to aortic valve bypass builds on our philosophy of providing a more patient-friendly approach to heart surgery at the University of Maryland that results in better patient outcomes and comfort," says **Bartley P. Griffith, MD**, chief of cardiac surgery at the University of Maryland Medical Center and professor of surgery at the University of Maryland School of Medicine.

In addition to Bonatti, **Eric J. Lehr, MD, PhD**, **Murtaza Dawood, MD**, and anesthesiologist **Ileana Gheorghiu, MD**, were part of the team with Gammie during this first robot-assisted aortic valve procedure. 🏢



James S. Gammie, MD



Johannes Bonatti, MD

Proton Therapy Coming to Maryland

The medical school, through its affiliated clinical faculty practice group, is playing a key role in plans for an estimated \$200 million project to bring to Maryland for the first time the most advanced radiation technology in cancer treatment—proton therapy.

The radiation oncology practice plan has signed a letter of intent with Advanced Particle Therapy LLC of Minden, Nev., entering into a final exploratory phase for the development of the Maryland Proton Treatment Center. It will be the first in the Baltimore-Washington region to offer state-of-the-art technology in radiation treatment for cancer. The medical school's radiation oncology faculty experts, who are members of the University of Maryland Marlene and Stewart Greenebaum Cancer Center team, could begin providing treatments at the center as early as 2014.

"This is the next-generation improvement in radiation oncology," says **William F. Regine, MD**, professor and Isadore & Fannie Schneider Foxman Endowed Chair in Radiation Oncology and interim chair of the department of diagnostic radiology and nuclear medicine. "It allows us the unprecedented ability to deliver a targeted dose of lifesaving radiation therapy directly to the tumor while minimizing radiation to the healthy tissue. It can result in more effective treatment for patients and fewer side effects. This technology is a powerful new addition to our tool box for fighting cancer."

According to the agreement, Maryland faculty will provide clinical management and therapeutic services to the Maryland Proton Therapy Center. Maryland Proton Treatment Center LLC will design, build, equip, own and operate the center.

Advanced Particle Therapy has taken on the same



William F. Regine, MD

role in the development of a similar center in San Diego, teaming with Scripps Health and Scripps Clinic Medical Group. It is anticipated that the Maryland center will use technology developed by Varian Medical Systems of Palo Alto, Calif., a world leader in radiation oncology equipment.

There are currently nine proton therapy treatment centers in the United States, with several more in development, and the technology is used in

more than 30 cancer centers worldwide. The closest proton therapy center to the Baltimore-Washington area opened in 2009 in Philadelphia.

Proton therapy is an advanced technology approved by the U.S. Food and Drug Administration and reimbursed by both Medicare and private insurance. The therapy has been used to treat nearly 70,000 patients worldwide since its inception in the 1950s, according to Advanced Particle Therapy. The technology for this therapy continues to evolve and will allow for its expanded use in treating cancer patients worldwide. The non-invasive outpatient therapy requires patients to receive about 30 treatments over a four to five week period. Treatments last about 25 minutes each day for five to six days a week. After each appointment, patients are free to leave the center and resume normal activities.

Proton beam therapy provides treatment for many common and some rare cancers. This treatment option dramatically reduces the radiation exposure to the areas of the body in the path of the radiation beam. Children are a prime example of this issue, as they are particularly at-risk for the traditional side effects commonly expected from conventional radiation.

The center will be located in Maryland's BioPark west of Martin Luther King Boulevard. 🏢

Reducing Traffic Deaths in Egypt

The spiraling rate of traffic fatalities in Egypt—more than 7,000 per year—prompted **Jon Mark Hirshon, MD, MPH**, associate professor of emergency medicine and epidemiology and public health, to pursue an injury prevention and research training program in that country and the surrounding region. The Middle East ranks second worldwide in the number of road fatalities.

Funded by the National Institutes of Health's Fogarty International Center for Advanced Study in the Health Sciences, and in collaboration with the Egyptian Ministry of Health, the initiative provides training in the assessment and management of trauma patients, injury prevention skills, and mentored educational opportunities for Egyptian health professionals. In addition, epidemiology studies related to injury are conducted.

"Originally, our mission was to develop a research infrastructure related to injuries," Hirshon explains. "But we soon learned that research wasn't our only priority, and so we combined that with a broad program of training in both preventing and responding to injuries."

As a result, the team has trained approximately 400 people in effectively responding to trauma situations, and has assisted Ain Sams University in Cairo in becoming a collaborator with the World Health Organization (WHO) in providing training. While the Middle East remains a volatile region vulnerable to disasters of many origins, Hirshon says the most dangerous activity in which a person can engage in Egypt is crossing the street! Vehicular accidents account for 45 percent of injury deaths in the country. Hirshon's team analyzes all factors related to such injuries, including data collection for study of moderate to severe traumatic brain injury at Alexandria University Hospital.

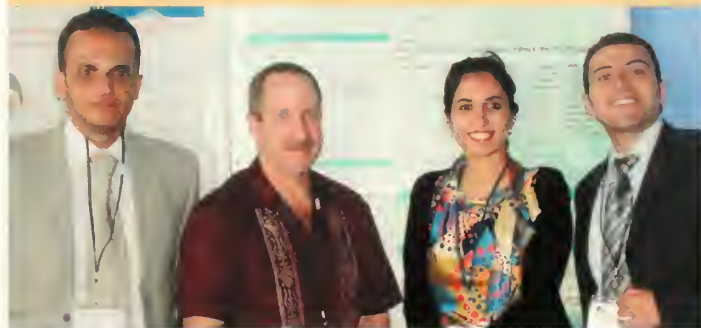
"Our broad-based studies among hospital patients have focused on human risk factors for violence and have explored attitudes about traffic accidents, as well as behavior on the street and behind the wheel," Hirshon reports.

One study involved interviews with Egyptian adolescents and questioned both their understanding and attitudes about injuries. Fatalism is a risk factor in Middle Eastern countries, as is a specific belief that accidents cannot be prevented. Nevertheless, research conducted by Hirshon's team has uncovered positive results, especially among young, educated Egyptians who appear to be supportive of injury prevention programs.

Hirshon's team addresses education in cross-cultural settings, challenges of language barriers, and substance abuse. In other words, both research and its related educational efforts confront every factor contributing to vehicular accidents.

The program, which originated in Cairo, has expanded to Alexandria, and is exploring a presence in other countries as well. Hirshon's hope is that by the end of 2011, the team's WHO collaborator will have completed the two-year process leading to recognition, thereby expanding relationships with other countries and an impact on injury reduction in the entire region. Already, trainees from Iraq, Sudan, Palestine, and Afghanistan have participated in training conducted through the program.

Fatalism is a risk factor in Middle Eastern countries, as is a specific belief that accidents cannot be prevented.



Attending the SAFETY 2010 Conference in London, Mohamed El Shinawi, lead trainer in Egypt, and Jon Mark Hirshon, MD, MPH, with trainees Amira Moshen and Waleed Saleh El Din

In addition to long term education (some of it leading to doctoral degrees) the program has addressed a need for shorter courses, emphasizing flexible trauma response for the emergency care of injured people in low and middle-income countries such as Egypt. This program is preparing trainees in injury prevention, disaster preparedness, trauma airway management and more, readying them for response to emergencies of all kinds.

This effective prevention effort has led to the creation of a workshop in international emergency preparedness and response, offered by Maryland and the Egyptian Ministry of Health, aimed at strengthening the capacity of Egypt to manage all types of emergencies and disasters. 🏠

Human Studies:



Ensuring Safety

By Barbara Pash

The University of Maryland Baltimore (UMB) is world-renowned for its research. Medical science cannot advance without it. Over the decades, protocols have become more sharply defined on vital issues like scientific validity, risk-benefit ratio, informed consent, use of placebos, and conflict of interest. In recent years, though, tragic incidents in human studies at institutions around the country attracted the research community's attention. Federal regulators began looking closely into how human studies were being conducted.

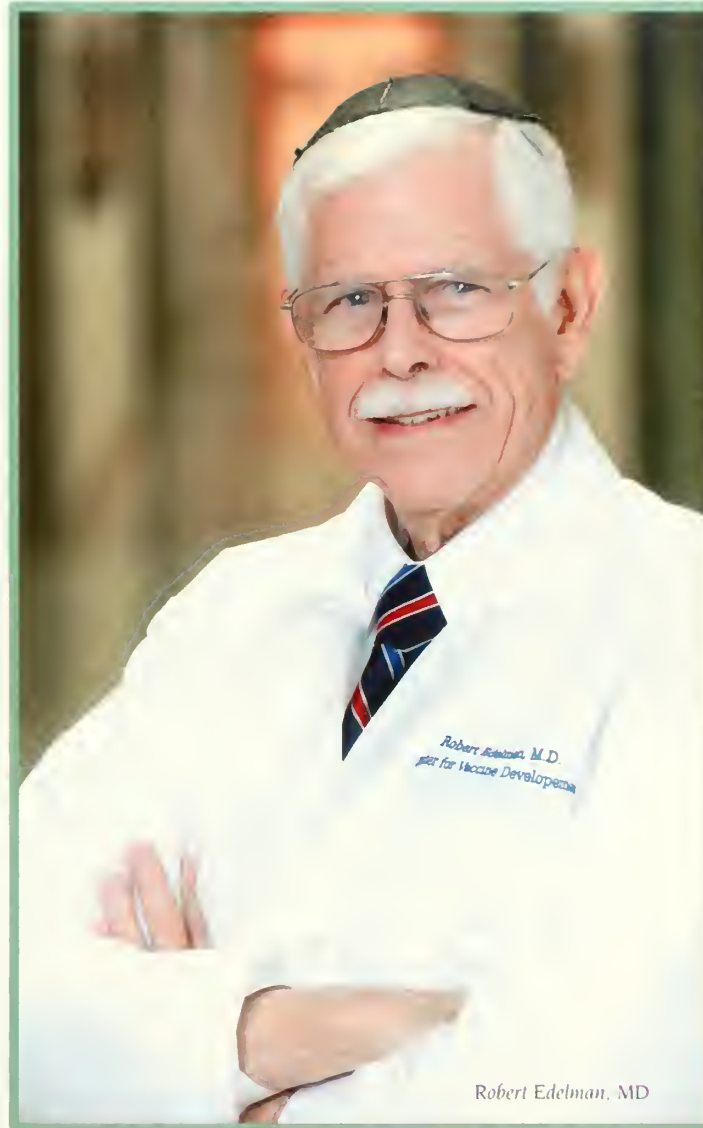
Robert Edelman, MD, professor of medicine and pediatrics, associate director for clinical research at Maryland's center for vaccine development, and chairman of the institutional review board (IRB), remembers that time well, from the late 1990s to the early 2000s. "We were caught up in the whole issue of oversight in research," he says.

An incident at UMB reinforced that message.

The experiment was in human physiology. In May 2000, a healthy 24-year-old male volunteer was given an IV to determine how a drug metabolized. What happened next was unexpected. He developed sepsis and spent three weeks in the hospital before fully recovering.

The school's investigators subsequently discovered that the volunteer had been infused with an outdated lipid. Instead of being given within four hours of being formulated—the acceptable practice—it had sat on a shelf at room temperature for 10 days.

A year earlier, in 1999, University of Pennsylvania researchers had a similar incident, albeit with a more tragic outcome, when an 18-year-old male volunteer died during a gene therapy trial. Then in 2001 at Johns Hopkins University, a healthy female volunteer died during an



Robert Edelman, MD

Dr. Edelman can be contacted at redelman@medicine.umaryland.edu



Edward Sausville, MD, PhD

asthma study. Federal regulators temporarily shut down federally-funded research at both institutions and initiated tighter regulations for all research with humans.

But UMB had already taken the initiative. As a result of the 1999 Pennsylvania incident, it had increased scrutiny of its own research practices. The lipid incident speeded up the process.

"It was a wake-up call to the university and we, as an institution, listened," says Edelman. "We decided we needed a major new framework for oversight of research." Edelman credits former medical school dean Donald E. Wilson, MD, MACP, with taking the lead.

Stricter monitoring and auditing protocols were instituted, among them an increase in the number of research review boards and of human research protections staff. Not everyone was pleased with the revamped process. Some considered it too bureaucratic, although UMB's procedure

The IRB is an independent body comprised of six panels of scientists in different specialties and community members. According to Edelman, the IRB's role is twofold: assuring research safety and determining the benefit-risk ratio to individuals and societal knowledge. "The benefits should offset the risks," he says. "That's at the center, the key part, of how an IRB should work."

is now fairly standard for research institutions across the country.

Edward Sausville, MD, PhD, professor of medicine and associate director for clinical research at the University of Maryland Marlene and Stewart Greenebaum Cancer Center, applauds the protocol-specific regimen. As far as he is concerned, it brings into "sharp focus" the elements of good clinical practice.

Research is inherently risky, particularly with humans. The outcome is unknown, and that is contrary to traditional medical practice where the good of the patient is paramount. "There are always going to be technical implementation problems in human studies. It's unavoidable," says Sausville. "But you don't want to make conceptual mistakes where you put people at risk."

The model for today's human studies dates to the revelation of the infamous Tuskegee, Ala., syphilis study. In 1979, a national commission issued the Belmont Report, setting up a structure for future research. UMB's human research protections program (HRPP) is based on that model, as are other such programs around the country.

HRPP is a web of campus-wide interconnections. With the mission of protecting the rights, safety, and welfare of research participants, the human research protections office (HRPO) coordinates and administers the HRPP as well as the institutional review board.

Susan Buskirk, MS, is assistant dean for human research integrity and compliance in the medical school. Buskirk, who has been involved in human subject research since 1997 and joined the HRPO in 2001, is responsible for the daily functioning of that office.

"We are the coordinating hub for the program," says Buskirk, who saw HRPO's full-time staff increase from five to 25 in order to support the IRB and to implement the compliance program that went into effect after the 2000 incident.



Proof of success came quickly. In 2005, the then-newly formed Association for the Accreditation of Human Research Protections Programs accredited the UMB program. UMB was among the first 20 research institutions to be so honored.

"We were in the forefront," says Buskirk, noting that the HPRR was re-accredited in 2008 and is due for another inspection in 2011.

The HRPO is largely funded by and operates out of the medical school even though it serves all of the UMB schools. Every year it receives 300 to 350 research applications, more than 80 percent of which come from the medical school, and any research involving humans. At any given time, the office may be overseeing 1,500 research projects.

The applications are passed on to the HRPO after being approved at the school or departmental level. HRPO staffers go over the applications in detail. "We ensure that research with humans is done ethically, is scientifically sound, and is conducted in compliance with federal, state and local regulations, policies and laws," Buskirk says as she relates the three guiding principles of human studies.

Federal regulations define two categories of research. Those with minimal risk can be reviewed by a single member of the IRB, appointed by the IRB chair. Those with greater than minimal risk are reviewed by an IRB panel.

The line between the two categories can be challenging. If there's any question, the application is put in the higher risk category. The same regulations and ethical standards apply to both levels of risk.

Although the IRB makes the final decision on applications, the HRPO is actively involved and can make suggestions. Applicants may be asked to provide more information or to make revisions.

Edelman has been chair of the IRB for the past nine years. At that level, he says, "we used to have more deferrals and rejections. But the HRPO staff has gotten better at knowing what's acceptable. They can smell a proposal that will have trouble at the IRB."

The IRB is an independent body comprised of six panels of scientists in different specialties and community members. According to Edelman, the IRB's role is twofold: assuring research safety and determining the benefit-risk ratio to individuals and societal knowledge.

"The benefits should offset the risks," he says. "That's at the center, the key part, of how an IRB should work."

Edelman provides a ballpark estimate for the IRB's four options: outright approval, 20 percent; approval with contingencies, 70 percent; deferral until questions are answered, eight to nine percent; and rejection, one to two percent.

As chair of the IRB, Edelman has the regulatory authority to suspend or stop a study, even if already approved. Rare as it is, he and Buskirk then discuss the particular problem, and the issue is brought before an IRB panel. It almost always accepts Edelman's recommendation as to whether the research can continue.

As an institutional official responsible for human research protection, Bruce Jarrell, MD, SOM executive vice dean, represents UMB before the federal government to assure that its research is safe, that it minimizes risk to subjects, and that it meets all compliance laws. The IRB approves research applications, but Jarrell makes sure they meet federal and state regulations. Only research that meets federal standards can be submitted to the U.S. Food and Drug Administration for use for trial in the United States.

In 2009, the medical school's total budget was \$881.4 million. Of that figure, \$479 million was in research grants and contracts, of which 40 to 45 percent was federal funding, with the rest from foundations and organizations like the American Cancer Society. Most of the medical school's funding went for basic investigations with a small portion, perhaps 10 percent, for human research, according to Jarrell.

An integral part of revamping the HRPP was developing what both Edelman and Buskirk call "a culture of conscience."

"Instead of looking at what we could do to avoid being shut down, we wanted to establish a culture of conscience," says Buskirk. "It was an effort to change the mindset."

Edelman is emphatic on this point. "What turns me off is when you start regarding patients as data points. This is so easy to do in an academic environment where the emphasis is on the science," he says.

A minimum two hours of training in clinical research practices sensitizes investigators to study requirements. Most universities now require such training, but UMB initiated it shortly after the lipid incident. Regular seminars and monthly lunch-sessions provide further education. Last year, 2,000 to 3,000 people participated.

Says Edelman of the culture of conscience, "If you have a patient who has an adverse effect, you better report it and you better do something about it. If you have to change drugs, for example, which means taking the patient off the study, you have an obligation to do so."

The medical school is rightfully proud of its research. Jarrell says the institution is “well known for genetic” and “very high quality diabetes” research, among many other areas. Sausville, a cancer researcher, calls the medical school’s research in his field “extraordinarily cutting-edge.”

But investigators walk a fine line and ethical dilemmas do arise. Jarrell points to research with children, the cognitively impaired, pregnant women, prisoners, and the terminally ill as particularly difficult situations, either because of the risk to the subject or the issue of informed consent.

“It requires constant attention to make sure the rights of the human subjects are upheld. It’s a big responsibility,” says Jarrell.

Sausville couldn’t agree more. He recalls the 1980s and 1990s as “a less formal time” in human studies and a “school of thought that the IRB protocols were suggestions, a general overall plan and not a set of marching orders.”

He much prefers the current system’s stricter guidelines, and he cites two examples.

The IRB recently approved an application for a face transplant, a first at Maryland. The application came before the IRB twice. The subject was considered so sensitive that the IRB even convened a special panel.

Says Edelman of the culture of conscience, “If you have a patient who has an adverse effect, you better report it and you better do something about it. If you have to change drugs, for example, which means taking the patient off the study, you have an obligation to do so.”

Face transplants “are not the standard of care at this point. It is being done under the auspices of a trial,” Sausville says, and the proposal sparked discussion of such ethical dilemmas as how the patient population would be identified, if they would be screened psychologically and how informed consent would be obtained.



Susan Buskirk, MS

“The IRB considered the positive aspects, but we also considered the risks,” Sausville says of this life-changing procedure. “The key point is that the review process brought up the ethical problems for doctors, patients, and the institution.”

For another example, the school has reinvigorated its childhood cancer treatment approach. In the past few years, eight to 10 multi-modality trials have been conducted with children with different forms of cancer.

Sausville says that the IRB has a distinct set of criteria for such research, including the information patients and their families receive; so they can make informed decisions.

“The protocols that are now in place give a lot more clarity and a lot more oversight,” says Sausville. 🏛️

Photos by Richard Lippenholz

Susan Buskirk, MS can be contacted at sbuskirk@som.umaryland.edu



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Ancient

Faces

of Davidge Hall



How many generations of medical students have faced the gaze of the plaster busts high above the hearth in Davidge Hall? Since they lack any makers'

marks and carry almost no documentation, the busts—recently cleaned and restored through the efforts of the Medical Alumni Association—may only be able to say to us, “We’ve been here longer than you.”

Whoever first placed them in Davidge must have had some purpose in mind, but one clear result has been to

remind students and faculty that modern medicine had its roots in the ancient world.

At the center of the seven busts sits father Zeus, king over the ancient Greek pantheon, ever serious with heavy beard and wavy hair. Zeus ruled the heavens and was protector of fate and justice. Why does he command the supreme place in a modern medical theater? He reminds us that medicine is but one of the learned professions—we are part of a larger whole.

To the right of Zeus is Apollo, whose purview includes medicine and the life-giving power of the sun. His head

is cast in a familiar form, one that was often copied in the ancient world and has been imitated down to our current century. Apollo is handsome, ever youthful, and looks slightly down and to the side—perhaps to assert a share of independence from Zeus.

At Apollo's left is the turbaned figure of Avicenna, scholar and intellectual from 11th century Persia whose studies covered a broader range even than those of Plato or da Vinci. Avicenna's presence in Davidge Hall may be a bow to the important connection that medieval Middle Eastern culture provides between the achievements of ancient Greece and scientific disciplines that post-date the Italian Renaissance. Among other contributions, Avicenna is credited with being the first writer known to advocate proving efficacy in the use of *materia medica* (pharmaceuticals).

At the far right from the audience's perspective sits Plato, founding author of Western philosophy, a broad thinker without whom later science and philosophy is difficult to imagine. We do not today associate Plato specifically with medicine, yet his presence is essential if, as the early founders of the medical school desired, we are to regard the medical faculty as an essential part of a larger intellectual and professional academy.


Moving to the far left of the seven busts we find Asclepius (or Aesculapius), the Greek god most closely associated with the profession of medicine. Patients in ancient times who were suffering from disease or injury were encouraged to spend a night sleeping close by his temple or altar to gain this god's favor.

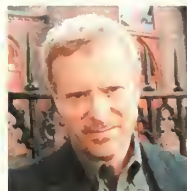
To the right of Asclepius is Homer, original poet and singer of heroic songs. Like his fellow mortal Plato, he is not a writer associated with medicine; yet his accounts of the battles at Troy contain fascinating hints about the human body and how it was understood and treated during the Bronze Age. Learning the language of Homeric Greek was, until the past century, seen as fundamental to advanced education in much of the developed world.

To the right of Homer, and just to the left of Zeus, we see a bust that may represent Hippocrates, the (probably real) physician who is credited with founding Greek medicine in the 5th and 4th centuries B.C.E. Medical school graduates continue to recite a much-modified version of his oath that they will put their patients' interests above all other considerations.

One hint as to the origin of the plaster busts can be found in a set of "Historical Notes" prepared by William G. Bartlett, '58 and Robert E. Cranley, Jr., '58 for the freshman orientation committee at Maryland in fall 1956. In these notes, Bartlett and Cranley assert that, for some unknown period of time, the busts were buried along with other debris near a garden close by the front of Davidge Hall. They

reter to the busts as "Greek gods" and write that those "had once occupied the recesses still to be seen along the walls in Chemical Hall. Only a few were unbroken [from being buried], the head of Zeus which now looks down into the [Chemical] hall and the head of Apollo in Mr. Clark's [chief of the Art Department] office."

Further investigation and interviews with alumni may bring to light additional information about these human and divine figures that decorate Chemical Hall. Whatever else comes to light, the busts are now cleaned and ready to sit for another half a century—at least—reminding students of the ancient and philosophical roots of their chosen profession. 



Author Wayne Millan has been working behind the scenes of Maryland's historical CPC for the past decade. A teacher and historian, he recently entered the world of on-line learning by teaching an intensive class in Classical Latin through the George Washington University.

The busts placed atop the hearth in Chemical Hall have been a source of inspiration to generations of medical students. Often they appear in articles and poems, including this one penned by Sidney Sacks, '46, in May 1945:

Our Medical School

There is a great school, lofty and serene
That stands on the corner of Lombard and Greene
Towering and majestic tis proud of its age
Through many a year it has set the stage
For the passing parade of the medical profession
The time-honored past is its proudest possession
Not that its future is destined to be dim
To express such a thought is an unpardonable sin
For Maryland's history shows it has the basis to be
The best in the nation, both for you and for me
Those circular halls shall never be blighted
Of students' voices and their laughter delighted
The tall graceful columns that guard its
halls
Are the symbols that to our mind
recalls
The winding stairs leading to the
circular rooms
Where the head of Hippocrates
solemnly looms
And wisely stares at the collec-
tion of men
Gently approves, then relapses to
immobility again

Homer, author of the Iliad and Odyssey



Appointments to National Organizations



Alice Ryan, PhD

Alice Ryan, PhD professor, department of medicine, has been appointed to serve as a member of the clinical and integrative diabetes and obesity study section, Center for Scientific Review, through June 30,

2014. Members are selected on the basis of demonstrated competence and achievement in their scientific discipline as evidenced by the quality of research accomplishments, publications in scientific journals and other significant scientific activities, achievements and honors.



Richard Y. Zhao, PhD

Richard Y. Zhao, PhD, associate professor, institute of human virology and departments of pathology and microbiology & immunology, was invited to serve on the editorial board of *Frontiers in Virology*.

Awards & Honors

Rudy J. Castellani Jr., MD, professor, department of pathology, is the recipient of the 2010 Alzheimer Award presented by the *Journal of Alzheimer's Disease* in recognition of his outstanding work, "Reexamining Alzheimer's Disease: Evidence for a

Protective Role for Amyloid- β Protein Precursor and Amyloid- β ." (18, 447-452, 2009). Castellani's work is a synthesis of pathogenic



Rudy J. Castellani Jr., MD

hypotheses based on his work and other recent studies, and their relationship with presumed causative pathological lesions and molecules. Each year the 310 associate editors of the journal vote to select an outstanding article from the previous year's volume to receive this prestigious award. Castellani was presented with the bronze Alzheimer medal and a cash award at the Alzheimer Association International Conference in Honolulu.



Carnell Cooper, MD

Carnell Cooper, MD, associate professor, department of surgery and program in trauma, and director of the violence intervention program (VIP), was presented with The American Trauma Society Maryland

Division Distinguished Achievement Award on March 17, 2010, for creating the VIP. The first hospital-based program of its kind, VIP ensures victims of intentional violent injury receive assessment, counseling, and social support from a multi-disciplinary team to help them make critical changes in their lives. VIP is based on the idea that approaching said victims, while they are still in the hospital, immediately following a life-threatening event is an opportune moment to engage them for intervention. The model hinges on the reality that health care professionals are frequently the first, and sometimes the only, professionals to have the opportunity to intervene. Research shows that the program results in an 83 percent decrease in repeat hospitalization due to violent injury for participants and a 75 percent reduction in violent crimes committed by VIP participants.

Kenneth P. Johnson, MD, professor emeritus, department of neurology, received the 2010 lifetime achievement award from The Consortium of Multiple Sclerosis Centers (CMSC) during its 24th annual meeting in San Antonio, in June 2010. The award was presented after Johnson delivered the CMSC's Whitaker Lecture entitled "Remarkable History of MS Disease Modifying Therapies." The

CMSC mission is to be the preeminent professional organization for Multiple Sclerosis healthcare providers and researchers in North America, and a valued partner in the global MS community. Its core purpose is to maximize the ability of MS healthcare providers to impact care of people who are affected by MS, thus improving their quality of life.

Linda Lund, PhD research associate, department of physiology, received an award for best poster at the June 2010 Gordon Research Conference on "Intermediate Filaments," held at the Tilton School in Tilton, New Hampshire, in June 2010. The title of her poster was "Synemin, an Intermediate Filament Protein, is Required for Desmin Association with Z-disks." Lund co-authored the study with **Robert Bloch, PhD**, professor, **Jackie Kerr, BS**, graduate student working in Bloch's lab, and **Meredith Bond, PhD**, professor and chair, all from the department of physiology.

Andrew N. Pollak, MD professor, department of orthopaedics, accepted, on behalf of the American Academy of Orthopaedic Surgeons (AAOS), one of six Summit Awards from the American Society of Association Executives (ASAE) at an ASAE award ceremony in Washington, DC, in September 2010. As part of the presentation, in lieu of speeches, ASAE produces a video that includes snippets of its members in action and a piece from an ASAE or AAOS representative. Pollak was featured in the ASAE video in a piece that highlighted the work of University of Maryland physicians, nurses and staff in Haiti after the earthquake. The Summit Awards recognize the achievements of the ASAE community and honor the industry's outstanding volunteer efforts.

E. Albert Reece, MD, PhD, MBA, vice president for medical affairs, University of Maryland, John Z. and Akiko K. Bowers Distinguished Professor and Dean, University of Maryland School of Medicine, was recognized as the 2010 honoree of the health services leadership award, presented by the Baltimore area council of the Boy Scouts of America, at the 17th annual health services leadership award luncheon in Baltimore in October 2010. The luncheon honors an individual who exemplifies the ideals of the Boy Scouts of America, who has a wide influence with peers and who has committed outstanding community service as evidenced by the interest and leadership given to many worthwhile organizations. The 2010 event chair was **Brian Browne**,

MD professor and chair, department of emergency medicine.



Thomas Scalea, MD, FACS, FCCM

Thomas Scalea, MD, FACS, FCCM Francis X. Kelly Professor of Trauma Surgery, director, program in trauma, and physician-in-chief R Adams Cowley Shock Trauma Center, received the special achievement award in science and

medicine from the National Italian-American Foundation (NIAF) in October 2010, during the NIAF's annual convention and gala in Washington, DC. The NIAF's annual convention and gala is one of the premier events in the nation's capital and is attended by more than 3,000 guests each year. Past honorees and special guests include: Lee Iacocca, Sophia Loren, Martin Scorsese, Al Pacino, Andrea Bocelli, Alan Alda, Dr. Anthony Fauci, **Robert Gallo, MD**, Speaker of the U.S. House of Representatives Nancy Pelosi, and

other notables in business, sports, entertainment and politics. The NIAF is a non-profit, nonpartisan educational foundation that promotes Italian-American culture and heritage. It serves as a resource for the Italian-American community and has educational and youth programs including scholarships, grants, heritage travel and mentoring.

Events, Lectures & Workshops



Robert Edelman, MD

Robert Edelman, MD professor, department of medicine, and associate director for clinical research, center for vaccine development, was a visiting professor delivering an invited

lecture entitled "Experimental Challenge of Healthy Volunteers with Virulent Plasmodium Falciparum: Safety and Efficacy Trials of an Attenuated Malaria Vaccine" at the second annual symposium at the Canadian center for vaccinology at Dalhousie University in Halifax Nova Scotia, Canada, in April 2010.

Mark Eppinger, PhD research associate department of microbiology & immunology and institute for genome sciences, presented a lecture entitled "Genomic Plasticity in the Genetically Highly Homogenous Pathogen Yersinia pestis," at the 8th Annual American Society for Microbiology Biodefense and Emerging Infectious Diseases Research Meeting in Baltimore in February 2010.

Nelson H. Goldberg, '73 professor of plastic surgery, delivered the Baltimore City Medical Society 2010 Dr. Maurice B. Furlong, Jr., Memorial Lecture on September 28. His presentation was entitled "Skin Cancer Screening: What Should Get Biopsied." At the October annual meeting of the American College of Surgeons, he presented "A Multi-surgical Approach to Reconstruction of Abdominal Wall Defects: Prosthetics, Biomaterials, and Beyond."



Nelson H. Goldberg, '73



James B. Kaper, PhD

James B. Kaper, PhD professor and chair, department of microbiology & immunology, presented "Vibrio Cholerae and Cholera Vaccine Development, TLR5 Activation and in Vivo Gene Expression" at the

Wellcome Trust Sanger Institute in Cambridge, United Kingdom, as part of the Wellcome Trust advanced course on the molecular basis of bacterial infection in May 2010.

Robert Koos, PhD professor, department of physiology, presented "HIF1's Role in Estrogen-induced VEGF Expression: Implications for Both Normal and Pathological Cell Proliferation" at the Society for the Study of Reproduction in Milwaukee at the 43rd An-

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nual Meeting in July 2010. In addition, Koos presented "Estrogen-induced VEGF Expression Via HIF-1: Putting Vascular Hyperpermeability and Circulating Proteins into the Estrogen Action Pathway" at the symposium on hormone action in endometrial disorders at the 14th International Congress on Hormonal Steroids and Hormones & Cancer in Edinburgh, Scotland, in September 2010.

Stephen B. Liggett, MD, professor, depart-



Stephen B. Liggett, MD

ments of medicine and physiology, and associate dean for interdisciplinary research, presented "Evolution and Structure of Human Rhinoviruses as Determined from Full Genome Sequences" at the International Congress of Pediatric Pulmonology in Vienna, in June 2010.

Kamal D. Moudgil, MD, PhD, profes-



Kamal D. Moudgil, MD, PhD

sor, department of microbiology & immunology, chaired a section entitled "Heat-shock Proteins and Infection in Autoimmunity" and presented "Defining the Immunological Basis of Differential Susceptibility to Autoimmune Arthritis" at the 7th International Congress on Autoimmunity in Ljubljana, Slovenia, in May 2010.

Andrew N. Pollak, MD, professor, depart-



Andrew N. Pollak, MD

ment of orthopaedics, was invited to speak at the American Academy of Orthopaedic Surgeons-Turkish Society of Orthopaedics and Traumatology Education Program in Antalya, Turkey, in April 2010. He presented talks on "Treatment of Tibial Plateau Fractures" and "Management of Subtrochanteric Femoral Fractures." Additionally, in June 2010, Pollak spoke at the 2nd International

Symposium of Traumatology in Yangzi, China, on "Principles of Management of Musculoskeletal Injuries in Polytrauma Patients—The Shock Trauma Approach" and in July 2010, participated in the AO international board of trustees annual meeting in Lisbon, where he presented "Humanitarian Relief to Capacity Building in Haiti—A Proposal for Developing World Fracture Care Education."

Book/Textbook Publications

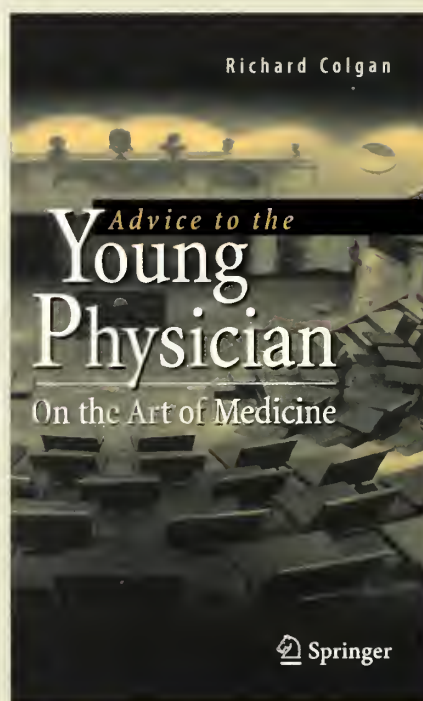
Kenneth P. Johnson, MD, professor emeritus, department of neurology, authored *The Remarkable Story of Copaxone®: An Approach to the Treatment of Multiple Sclerosis*. The book discusses the discovery and development of Copaxone®, representing what may be one of the most successful transfers of technology from academia to industry. Further, it

highlights how Copaxone® has become the most frequently prescribed RRMS therapy in the world. The book is available for purchase at www.Amazon.com.

Andrew N. Pollak, MD, professor, department of orthopaedics, was the series editor of *American Academy of Orthopaedic Surgeons: Emergency Care and Transportation of the Sick and Injured*, 10th ed., Sudbury (MA), Jones and Bartlett Publishers, 2010 (March), and the series editor for *American Academy of Orthopaedic Surgeons: Emergency Care and Transportation of the Sick and Injured* [in Spanish], 9th ed., Sudbury (MA), Jones and Bartlett Publishers, 2010 (Apr 30).

Grants & Contracts

Jeffrey C. Fink, MD, MS, associate professor, department of medicine, received a five-year \$2.4 million R01 award from the National Institute of Diabetes and Digestive and Kidney



Advice to the Young Physician

Written by Richard Colgan, MD, *Advice to the Young Physician* reveals how to make the transition from technician to healer as taught by some of medicine's greatest teachers. Colgan is an associate professor at the University of Maryland School of Medicine and director of undergraduate education in the department of family and community medicine.

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Jeffrey C. Fink, MD, MS

Diseases for his project entitled "Does Under-recognition of Kidney Disease Affect Patient Safety?"

James B. Kaper, PhD professor and chair, department of microbiology & immunology, was awarded a five-year

\$7.5 million U19 grant from the National Institutes of Allergy and Infectious Diseases for "Severe Enteric Disease: Pathogenesis and Response." This multi-project grant will investigate important clinical, pathogenesis and host response issues of severe enteric disease caused by diarrheagenic *Escherichia coli* and *Shigella* species. Additional project leaders include **Michael Donnenberg, MD**,



Michael Donnenberg, MD

professor, department of medicine, and **Alessio Fasano, MD**, professor, department of pediatrics, and director, mucosal biology research center. Other aspects of this program include microbiome and bacterial genom-

ics studies conducted by **David Rasko, PhD** assistant professor, department of microbiology & immunology and institute for genome sciences. The research also will utilize clinical specimens and isolates from the Gates Foundation-funded global enterics multi-center study, or GEMS, directed by **Myron M. Levine, MD, DPTH**, professor, departments of medicine and pediatrics, and director, center for vaccine development. The NIH has funded this University of Maryland group along with three other U.S. academic institutions to form the Enteric Research Investigational Network (ERIN) to investigate various aspects of enteric disease.

Miriam K. Laufer, MD MPH assistant professor, department of pediatrics and center for vaccine development, received a four-year \$5.5 million grant for "Clinical Trial of Chloroquine Weekly or as IPT to Prevent Malaria in Pregnancy in Malawi" as part of the

National Institute of Allergy and Infectious Diseases clinical trial implementation cooperative agreement. The overall goal of this study is to establish the optimal strategy for administering antimalarial medication to prevent pregnancy-associated malaria and avoid its detrimental effects on mothers and newborns.



Margaret M. McCarthy, PhD



Miriam K. Laufer, MD MPH

Margaret M. McCarthy, PhD professor, department of physiology, and associate dean for graduate studies, received a five-year \$1,875,000 grant from the National Institute of Mental

Health to support her research proposal "Prostaglandins and Cerebellum Development."

Gordon S. Smith, MB, ChB, MPH professor, department of epidemiology & public health, received a five-year \$1,558,246 grant for his project "Alcohol Involvement in a Cohort of Trauma Patients: Trends and Future Mortality."

Vladimir Y. Toshchakov, PhD assistant professor, department of microbiology & immunology, received a five-year \$1,875,000 National Institutes of Health grant for his proposal entitled "Deciphering the Architecture of TLR Signaling Complexes." 



Vladimir Y. Toshchakov, PhD

**Grants & Contracts of \$1 million and above*

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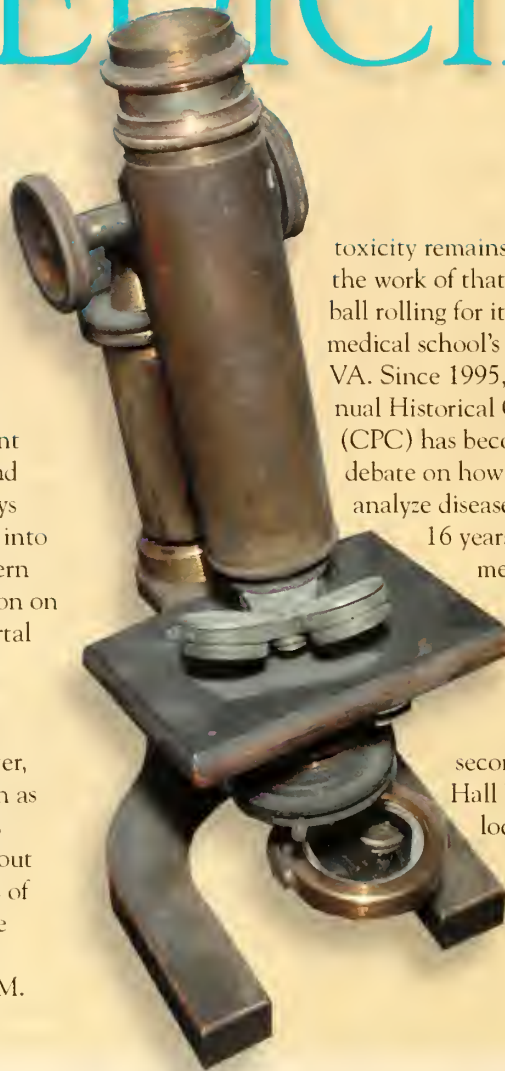
Nearly Two Decades of History through **MEDICINE**



It all started with a dying poet. He was disheveled and incoherent when he was picked up from a Baltimore street nearly 150 years ago. The patient was then 40 years old, and his demise after a few days

in hospital was still not fully explained, even into the 1990s. Would it be possible to ask a modern physician to examine historical documentation on that dead poet—Edgar Allan Poe, whose mortal remains still lie under Westminster Hall at the corner of Greene and Fayette Streets—and then offer a formal diagnosis as to why the great writer had died as he did? Even better, could specialists from various disciplines, such as history and pathology, come together in ways that would provide new insights, not only about Poe, but about the many other famous figures of the past whose medical histories still generate controversy?

That initial conference, held in the John M. Dennis Auditorium of the VA Maryland Health Care System in January 1995, featured clinical commentary by cardiologist R. Michael Benitez, '86. He reviewed what was available in the way of eyewitness accounts and medical records and came to the remarkable conclusion that Poe's death was consistent with a case of rabies. His finding generated headlines around the world. Benitez's argument would later be modified to take into account additional evidence and interpretation—alcohol



SINCE 1995, WHAT BECAME KNOWN AS THE ANNUAL HISTORICAL CLINICOPATHOLOGICAL CONFERENCE (CPC) HAS BECOME A FIXTURE OF INTERNATIONAL DEBATE ON HOW MODERN MEDICAL SCIENCE CAN ANALYZE DISEASES AND DEATH FROM LONG AGO.

toxicity remains a possible explanation—yet the work of that conference got an unstoppable ball rolling for its two institutional sponsors, the medical school's department of medicine and the VA. Since 1995, what became known as the annual Historical Clinicopathological Conference (CPC) has become a fixture of international debate on how modern medical science can analyze diseases and death from long ago. For

16 years, alumni and students at the medical school, together with staff, administrators, and guests—including the press—have been treated to the academic and cultural event that is the Historical CPC. And since the second annual conference, Davidge Hall has appropriately served as its locale.

Subjects have ranged from ancient political leaders including Alexander the Great, Roman emperor Claudius, and pharaoh Akhenaten, to explorers and archaeologists Christopher Columbus and Heinrich Schliemann, to modern men and women such as Simon Bolivar, John Paul Jones, and Florence Nightingale. Findings from the conference series have been not merely surprising but often have

had a major impact on our understanding of history.

This was dramatically illustrated in 2002, when Dr. Jan Hirschmann of the University of Washington/VA Puget Sound was able to show how the account we have of the

death of King Herod the Great (the Biblical figure) was medically plausible. The one ancient writer who gave us that account, Josephus, had long been criticized for creating a kind of horror story about Herod's death in order to please his Roman overlords (Josephus was a native of Judaea). Yet the details Josephus provides, as analyzed by Hirschmann, turn out to be in accord with known consequences of untreated renal failure in elderly men. In this way, a long debate over Josephus's reliability as an historian has been, if not settled, then at least inclined more strongly in the ancient author's favor.



In 2006 the subject was Booker T. Washington, the most influential African-American leader of the post-Civil War era. With the co-operation of Washington descendants—some of whom attended the meeting itself—the Historical CPC was able to obtain medical records from the final year of his life. It was clear from those records that Washington died, at age 59, from the rapid onset of malignant hypertension. In that era, shortly before World War I, little was available in the way of effective treatment for hypertension, even at the finest medical institutions, and Washington had been treated at Rockefeller University in New York. Rumors about other possible causes of death, including sexually transmitted disease, were put to rest once and for all, and it was the Historical CPC that made possible such a definitive conclusion.

The impact of the conference has been felt in musical circles as well, with case studies done on Mozart and Beethoven and memorable performances, such as a night at Meyerhoff Hall with maestro Marin Alsop and the Baltimore Symphony Orchestra. In 2008 the conference featured a rare presentation of segments from Philip Glass's opera "Akhenaten," which were conducted by Baltimore's own T. Herbert Dimmock.

In the clinical presentation on Mozart, Faith Fitzgerald, MD, of the University of California Davis School of Medicine argued that rheumatic fever was the likely cause of his death at age 35. Hirschmann, the same physician who would later analyze King Herod's condition, weighed in separately in favor of trichinosis as the culprit. The active debate that has followed illustrates the impact and value of the Historical CPC worldwide.

The conference was originally scheduled during the winter, but in order to encourage wider participation was moved to reunion of the Medical Alumni Association in 2002. During that year, a special, second conference was added—an assessment of the mental state of Joan of Arc—which saw not only a mock trial of St. Joan but also



a performance of excerpts from Richard Einhorn's *Voices of Light* with the composer, whose father Samuel Einhorn, '35, was in attendance.

Besides Florence Nightingale, other subjects for mental health assessment have included George Armstrong Custer and Roman emperor Nero. The latter was judged to have been a highly narcissistic personality but not clinically delusional, another important finding for historians.

Before the formal presentations were given about Nightingale, in 2003, the Historical CPC's cultural production included a segment from a play about her written in 1920 by Baltimore native Edith Gittings Reid (mother of Francis Fielding Reid, '30). The production constituted the professional premiere of Reid's play and featured actress Meredith A. Brisco, '04, in the role of Nightingale's sister. Set within the classical plasterwork of Chemical Hall and reverberating off the 200-year-old bricks that sustain Davidge, deep feelings of achievement for the medical school, and for Maryland history, could not have been sensed more powerfully than they were that day.



A scene from Florence Nightingale (1920) was performed in 2003 by Reid Sasser as Mr. Nightingale, Meredith Brisco, '04, as Lady Verney, and Wayne Millan as Horton, the butler

It has been the custom to include commentary by a prominent historian or biographer at each meeting. For this coming year's Historical CPC, an appearance by the celebrated English poet Ruth Padel is scheduled. Padel is a direct descendant of our next subject. She plans to read from her own recently published work, which attempts to understand her famous ancestor through her own poetry and through the ancestor's most personal writings.

In spite of the conference's growing popularity and overflow crowds, Chemical Hall—the first floor lecture hall in Davidge Hall—continues to serve as venue. Philip A. Mackowiak, '70, founder of the conference, was asked what most struck him about the significant impact of the conference series that he continues to direct.

"I was, and still am, shocked—not too strong a word—by the level of public interest in our series and the persistence of that interest. Yet I'm also pleased to see the ways in which specialists from different disciplines continue to work together towards our common scientific goals."

Common scientific goals: the sharing of data, analysis and theories, the unusual cross-disciplinary efforts that have characterized the Historical CPC from that very first analysis of a dying poet. Davidge Hall will go on as the focal point for this unique sort of intellectual activity—for at least another 15 years, we shall all hope. 🏛️

[FACULTY PROFILE]

It's in the Genes

Miriam Blitzer, PhD

IN THIS ENLIGHTENED WORLD of 2011, young people considering a career in science are almost sure to give at least some thought to genetic medicine. Even before the sequencing of the genome, it showed promise. After that event, knowledge of genes and the

mutations that cause inherited diseases like Tay-Sachs and cystic fibrosis accelerated, as did hope for infants born with one of these debilitating and often fatal conditions.

However, when Miriam Blitzer PhD, professor of pediatrics, graduated with a degree in chemistry in 1974, the field of genetics was far less populated. Blitzer, who holds secondary appointments in the department of obstetrics, gynecology and reproductive medicine, and the department of biochemistry and molecular biology, remembers that she approached her undergraduate commencement realizing that she didn't want to spend her entire life in a chemistry laboratory.

"My faculty advisor told me about a brand new field called genetic counseling, and suggested I look into it," Blitzer recalls. "So I headed from California to the University of Pittsburgh where I figured I'd get a masters degree in genetics and do counseling."

That eastbound trip was the beginning of a lifelong commitment that catapulted the young woman into a multi-faceted career. She followed the masters with a PhD in human genetics, leading to fellowships in medical genetics and clinical biochemical genetics.

Since then, she has gone well beyond her original plan of genetic counseling to teaching, research and, most recently, heading a diagnostic laboratory for metabolic diseases. Today, she considers her work primarily administrative, but adds that she continues to do research and to teach—the part that makes her want to come to work each morning.

For the last six years, Blitzer has been coordinating an international quality control program for laboratories throughout the world that do testing for Tay-Sachs carriers. Conducted by her lab, the program is under the umbrella of the National Tay-Sachs Disease Association.

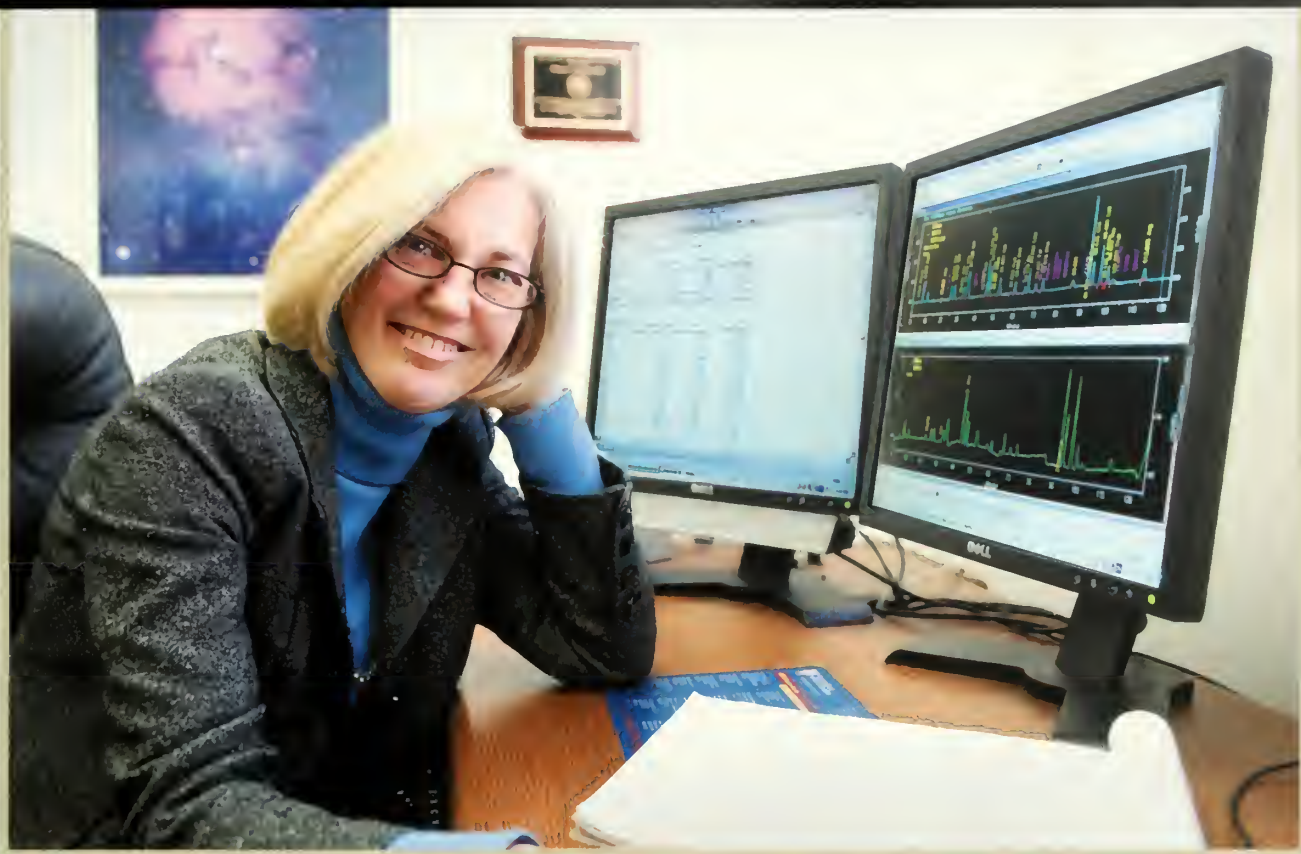
"It's an exciting program," she says. "Our goal is to encourage laboratories to participate for the purpose of assuring that testing of people being screened as carriers is done appropriately. Whenever possible, we want to test couples prior to pregnancy."

She adds that, while Tay-Sachs primarily affects Jewish couples, the disease, along with others considered to be specific to ethnicity, cannot be attributed to any one group of people. Blitzer spent several years at Tulane University in New Orleans, researching the disease as it affects the Cajun population.

Today, Blitzer's lab, which she co-directs with Erin Stroval, PhD, assistant professor of pediatrics, provides diagnostic testing for inherited metabolic diseases. When an inborn error of metabolism, or mutation in an enzyme, is found during newborn screening in hospitals throughout the state, a diagnostic test may be performed in Blitzer's lab.

"The clinical picture may point to a group of disorders, but may not pinpoint specificity," Blitzer says. "So we have to provide a diagnostic test, using complex biotechnology equipment. This is highly specialized diagnostic work demanding considerable expertise to be able to interpret what we see."

For the last six years, Blitzer has been coordinating an international quality control program for laboratories throughout the world that do testing for Tay-Sachs carriers. Conducted by her lab, the program is under the umbrella of the National Tay-Sachs Disease Association.



Happily, many of the disorders found in the laboratory today are treatable. "Most of the diseases that could not be treated when I first started out can now be treated with good outcomes," she says. "In fact, much of the genetic information we have today was not known 10 to 15 years ago."

As if helping to guide her chosen profession from its beginnings to its present stature in the medical community wasn't consuming enough for the energetic Blitzer, her career has been punctuated by participation in numerous educational and governing organizations, as member and chair of university and community service activities, and leadership that have earned her a national reputation in her field.

Among her honors is the 2008 award and membership in the Carolyn J. Pass MD '66 and Richard J. Susel MD '66 Academy of Education Excellence, presented for excellence in medical school education. She has won Nestle's Nutrition Fellowship Award, the Charles E. Culpeper Fellowship in the Medical Sciences, and was the invited speaker representing pre-clinical faculty, at the medical school's third annual white coat ceremony. In addition, she was selected as a fellow in the Program for Executive Leadership in Academic Medicine designed to increase women in leadership positions.

Looking both back and to the future, Blitzer says that many of the advances in her field have resulted from the human genome project and understanding the impact of one's individual genome on health. As for the future, much depends on the translation of basic research into clinical practice. "The possibilities are exciting," she

says. "Physicians will need to understand much more about the genome and how that understanding will help them manage their patients," she reports. "It's important that education is not restricted to medical school students, but is extended to practicing physicians as well."

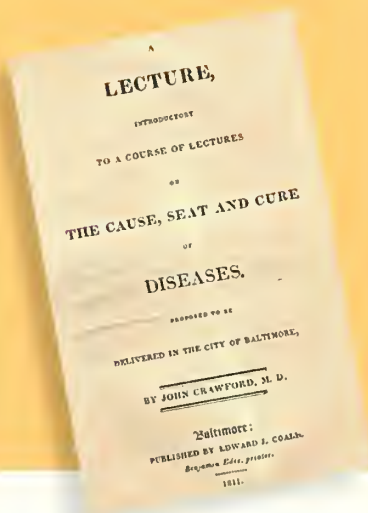
Blitzer was selected to serve as part-time executive director of the American Board of Medical Genetics and, in that capacity, is working with the American Board of Medical Specialties to set standards for medical genetics.

As for educating other health care professionals as well as the public—a critical component for the field of genetics—she is involved in Maryland Science Center grants, and serves as president of the Association of Professionals in Human and Medical Genetics. She reports the National Board of Nursing now has a requirement for genetic education as part of nursing education, as do the governing boards of dental schools and nutritional training programs.

Of all the professional hats Blitzer has worn in her career, she says teaching has been the most rewarding. "Keeping in touch with those I helped train is an amazing experience," she says. "Seeing them running their own labs, or working in their own practices—nothing surpasses the satisfaction of seeing them succeed. When they call to ask a question, or tell me what they are doing, when we talk about something we worked on together—that's a very special high. I love running into them at conferences. Interacting with a former student as a colleague tops it all." 🍷

200 Years Ago

In 1811, Dr. John Crawford began teaching courses on natural history. His introductory lecture *The Cause, Seat, and Cure of Diseases* predicted a relationship between insects and human illness. Unfortunately, this radical germ carrier theory was rejected by both colleagues and patients, and Crawford died destitute and isolated in 1813.



115 Years Ago

In 1896 a football team was formed consisting of medical, law and dental students, paving the way for the formation of a University of Maryland Athletic Association. Within a few years the University had teams competing in baseball, ice hockey, track & field, tennis, and basketball against the Maryland State College of Agriculture, St. John's College, Navy, Georgetown, Johns Hopkins, and occasionally Rutgers and North Carolina.



80 Years Ago

In 1931, Joseph I. France, class of 1903, announced he was seeking the Republican nomination for president. He lost in the primary to President Herbert Hoover, who one year later would be defeated by Democrat Franklin Roosevelt. France served in the Maryland senate from Cecil County and from 1917 to 1923 was a U.S. senator.

recollections

A look back at America's fifth oldest medical school and its illustrious alumni



What is LinkMD?


- ❖ Building a network among students, residents, faculty, and alumni.
- ❖ Promoting a sense of solidarity and pride within the University of Maryland academic community.
- ❖ Enables students to bond, to discover a mentor, and to prepare for professional life by bringing people together in a relaxed, candid, personal atmosphere.
- ❖ Interested doctors contact LinkMD with a date, time, and venue at which they would like to host an event, and an electronic sign-up is posted on MedScope, a website available to Maryland medical students.
- ❖ Hosting an event means providing dinner at their house, at a restaurant, meeting students for happy hour or sharing a hobby (running, biking, bowling, etc) with similarly interested students.
- ❖ While providing exposure to a specific field of medicine, students are also able to gain insight into the personalities that are drawn to different specialties.
- ❖ If you are interested in hosting an event or learning more about LinkMD, please email linkmd@som.umaryland.edu or visit <http://web.me.com/link-maryland>.

student activities

Phonothon Appreciation Night

The Medical Alumni Association expressed its appreciation to the student volunteers of this year's annual phonothon by treating them to a night on the town. Just a short walk from campus, the Pratt Street Ale House served as the venue for the 125 participants who raised over \$100,000 in seven nights of calling.

Medical Family Day Featuring White Coat Ceremony

For 160 first-year medical students, the white coat on November 4 will be remembered as a pivotal event in their medical school education. It symbolizes the beginning of a journey into medicine—a lifelong journey of learning and healing. In addition to being coated by medical school faculty, they signed the medical school honor registry and recited an oath accepting the obligations of the profession. For the families present, it was much more than that, as the medical school provided a full morning of programming designed to help them understand the life of a medical student, and what they should expect over the next four years. In addition to the medical school dean E. Albert Reece, MD, PhD, MBA, presenters included H. Richard Alexander, MD, professor and associate chair for clinical research in the department of surgery; David Mallott, MD, associate dean of medical education; Donna Parker, '80, associate dean of student affairs; Neda Frayha, '06, assistant professor in the department of medicine; and Milford M. Foxwell Jr., '80, associate dean of admissions. The white coat ceremony has been staged at Maryland since 1997.  Photos by Tom Iemisk, Mark Teske and Caerie Haines



Associate Dean Milford M. Foxwell Jr., '80, looks on as Bryant Nelson, '14, signs the University of Maryland Honor Registry.



The Class of 2014

Emphasis on Generosity to Bolster School's Mission

The medical school has achieved breakthrough advances in recent years in each of its mission areas of research, patient care, and education. Reports of these accomplishments have appeared in the pages of the *Medicine Bulletin* magazine and added immeasurably to Maryland's reputation and stature. Fund-raising priorities focus on bolstering those areas of excellence with private gifts and grants. Philanthropy creates the distinction between great institutions and extraordinary ones, providing the means for the energetic growth of programs and the advance of scientific discovery. This dynamic shapes Maryland today.

For example, this fall the department of neurology acquired a gift of \$2.7 million by a grateful patient for an endowment in the Maryland Parkinson's Disease and Movement Disorders Center. Another friend donated \$25,000 to support diabetes research. In the fiscal year that ended June 30, 2010, more than 4,600 donors contributed to the school, a number that has held steady even during the past two years of national declines in giving. Total private giving last year reached a record level exceeding \$61 million. With the goal of achieving quantum strides in each mission area, the theme of the medical school's development effort is *Transforming Medicine Beyond Imagination*.

Research is often of interest to grateful patients intensely interested in cures and better treatments. Key research initiatives that attract philanthropy reside in clinical departments such as surgery, neurology, radiation oncology and medicine, departments that have realized numerous gifts in recent years. The center for celiac research (CCR) and the center for integrative medicine


(CIM) have gained considerable private giving. The CCR has developed a nationwide network of thousands of contributors. The CIM has garnered a loyal constituency and significant benefactors, and next year will mark the 20th anniversary of its founding.

The program in oncology, housed in the University of Maryland Marlene and Stewart Greenebaum Cancer Center and the program in trauma at the Shock Trauma Center represent high profile, high impact enterprises with well defined lists of giving opportunities. Last fall, a benefactor pledged \$1 million toward an endowed distinguished professorship in the cancer center. Shock Trauma is accumulating two new professorships that compliment its campaign for construction of a new hospital building. Newer centers of excellence that have emerged as fund-raising priorities are the institute for genome sciences and the center for stem cell biology & regenerative medicine. Both require research funds and endowed positions for their leaders.


Among the eminent enterprises at Maryland is the institute for human virology (IHV). It is the first center to combine the disciplines of basic

research, epidemiology and clinical research in a concerted effort to discover the diagnostics and therapeutics for chronic and deadly viral and immune disorders, most notably the HIV virus that causes AIDS. The institute cares for thousands of patients in Baltimore and overseas. A key priority is to complete an endowed distinguished professorship in the IHV.

The medical center educates and trains more than half of the practicing physicians in Maryland, yet many students graduate with debt approaching \$200,000. Even though Maryland is a public university, scholarship packages offered by private universities often make it less costly for a recipient to choose the latter. The school needs contributions to its scholarship funds and is making progress. In November, a friend made a commitment of \$100,000, adding to other gifts recently made by several friends.

As a complex organization, the opportunities for philanthropy at Maryland are numerous. Details about the medical school's campaign are available by calling the Office of Development at 410-706-8503 or by consulting the web site, medschool.umaryland.edu/development/. 

MAA Phonothon Nets \$100K in Pledges

Alumni and students were able to speak with more than 1,000 graduates during the annual MAA Phonothon in fall. The annual event, held in Davidge Hall since 1978, is one component of the annual fund which is expected to exceed \$700,000 during fiscal year 2011. Nearly 600 alumni made pledges of \$100,000 during seven nights of calling. This year more than 125 students joined alumni in making calls. If we were unable to reach you, annual fund gifts for FY2011 will be accepted through June 30, 2011. 

Ariel Schonfeld, '13 was one of 125 student volunteers at this year's phonothon.



Wealth Planning Through Charitable Giving

Charitable giving can provide great personal satisfaction and potential income, gift and estate tax benefits. Simply stated, a person can do well by doing good.


Assets that are often gifted include highly appreciated real property, cash, tangible personal property and interests in property. Gifts can be made during one's lifetime or at death, outright or through the use of a special arrangement such as a gift annuity, and a charity can be named as a beneficiary in one's Will, retirement plan or life insurance policy. Two popular strategies for charitable giving that offer wealth planning advantages feature the use of either a charitable lead trust or a charitable remainder trust.

A charitable lead trust pays income to the designated charity for a specified period of time, which can be for a term of years, the lifetime of the donor, or the joint lifetime of the donor and the donor's spouse. Once that period has expired, any income and principal remaining in the trust is distributed to the named non-charitable beneficiary. A charitable lead trust can be a valuable wealth planning tool for individuals who own assets which are expected to appreciate substantially. This device, when properly created and managed, may provide income, gift and estate tax benefits while permitting the eventual return of the assets to the family.

A charitable remainder trust is a reciprocal image of the charitable lead trust. Trust income is provided to a non-charitable beneficiary for his or her lifetime or for a period of time (up to 20 years) and after that period has expired, any income and principal remaining in the trust is distributed to the designated charity. In addition to the potential income, gift and estate tax benefits, a charitable remainder trust can be an attractive wealth planning tool because this device, when properly established and managed, may provide a stream of current income to the trust's non-charitable beneficiary—a desirable feature in the event that there may not be enough income from other sources.

As is the case with a charitable lead trust, the creation of a charitable remainder trust requires an irrevocable commitment, and the annual payment is required to be made each year regardless of whether there is sufficient trust income available. However, in contrast to a charitable lead trust, the assets donated to the charitable remainder trust are forever removed from the inheritable estate.

Gifts of assets to charity has the potential to provide rewards in both personal satisfaction and in the form of income, gift and estate tax savings. Tax reform, whether relative to tax rates or to the overall structure of the system, will continue to be a subject of significant legislative focus for the foreseeable future. The potential for tax law changes, while increasing the need for careful planning, should not be an excuse to postpone taking action.

There are stringent technical rules, limitations and requirements that must be met to reap the potential tax benefits associated with charitable giving. If you are inclined to give back to your alma mater or to your favorite personal cause, your first step should be to seek advice from appropriately qualified financial, legal and tax professionals. 

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This column is prepared by Ken Pittman, a senior vice president and wealth planner at PNC Wealth Management. He provides fee-based wealth planning services and can be reached at 410-237-5324 or at kenneth.pittman@pnc.com

1943D: Augustus H. Frye Jr. of Lookout Mountain, Tenn., is grateful to Maryland for getting him off to a good start with his education. He loved practicing knee and shoulder arthroscopy but is now retired. Ninety-three years old isn't bad, he reports, but retirement is the pits! **1947: E. Anne D. Mattern** of Rockville, Md., turned 88 and reports that she had lunch recently with classmates **Robert Duvall** and **Parker Dorman**. She continues mowing three acres of grass on her tractor, and every Christmas and Thanksgiving entertains her six children, their spouses, 12 grandchildren, and one great-grandchild.

1954: Robert H. Ellis of Fort Collins, Colo., continues to interpret ECGs at the local hospital. He also does some woodworking, a lot of yard work, and a little traveling. **1956: Virginia T. Sherr** of Holland, Pa., reports that son Gregory has joined a private practice in St. Cloud, Minn., after completing residency training in neurosurgery. **Charles Sanislow** of Midland, Mich., continues to direct the vascular lab at his local hospital while enjoying tree farming, fishing, and grandchildren with wife Sallie. **1957: Leonard M. Zullo** of Baltimore traveled to Uruguay last July on a duck-hunting expedition. **1958: William T. Ward** of Saratoga, Wyo., completed a second volume on Wyoming's Foremost artist E. W. "Bill" Gollings (1878-1932) and funded an oversize bronze sculpture of the artist for the state capitol. **1959: Joseph L. Darr** of Indian Wells, Calif., is retired as chairman of the board for Kennedy Memorial Hospital and as counselor to the Riverside County Medical Association.

1960: James A. Yates of Lemoyne, Pa., continues practicing plastic surgery and is medical director for the Grandview Surgery Center and Vista Surgery Center, and he is chief of plastic surgery at Holy Spirit Hospital in Camp Hill. **1961: Michael B. A. Oldstone** of La Jolla, Calif., was elected to the Academy of Science as well as the Institute of Medicine of the National Academy and

the Association of American Physicians. He recently accepted a visiting professorship at the University of Alabama, Tuscaloosa. The second edition of Oldstone's book *Viruses, Plaques and History* has been translated into six languages. **David L. Rosen** of San Rafael, Calif., is volunteering at Rotacare, a free clinic operated by his Rotary club. **George E. Urban Jr.** of Clinton, Md., remains active in practice but is no longer doing head and neck surgery. He and wife Alicia enjoy their 12 grandchildren living from Alaska to Florida and in between. Urban enjoys kayaking and skiing, and they take annual river cruises in Europe. They are opera, theater, symphony and art-show ticket holders who do not plan to leave the Washington, D.C./Maryland area. **1962: Irvin F. Hawkins** of Gainesville, Fla., received the 2010 gold medal from the Society of Interventional Radiology and 2010 lifetime achievement award from the University of Florida Faculty Council for his pioneering work in interventional radiology. **1963: D. Robert Hess Jr.** of Greencastle, Pa., is fully retired but keeps busy with family, gardening, volunteer work, writing, reading, and travel. **1964: Richard G. Shugarman** of West Palm Beach, Fla., is recipient of an achievement award presented by the American Academy of Ophthalmology. He is editor for EyeWiki, an on-line resource created by the academy. **1965: David R. Harris** of Saratoga, Calif., continues working part time covering practices in his area as well as teaching in the dermatology department at Stanford University. **1966: Louis E. Grenzer** of Cockeysville, Md., has returned to a solo practice of cardiology and medicine after a stint with MidAtlantic Cardiovascular Associates. He and wife Jeanne recently celebrated the birth of their 13th grandchild. **James W. Spence** and wife Juanita of Lakeland, Fla., are well since Spence's retirement from neurosurgery. He continues to maintain his asset management company. **1967: Elizabeth A. Abel** of Los Altos, Calif., continues practicing dermatology part time and was recently appointed president of the Pacific Dermatologic Association. She and husband Barton enjoy travel to visit children and

grandchildren, including son **Barton Lane, '01**, a radiologist at Maryland. **Stuart H. Lessans** is enjoying retirement in a new Bethesda, Md., home. Twins Faye and Matthew are in fourth grade at the Charles E. Smith Jewish Day School, and wife Ellen is happy in her clinical psychology practice. **1968: Jon M. Valigorsky** continues living in the Berkshires (Mass.) since retirement in 2008.

1970: Julian Gordon of Cleveland is a facilitator for IQ teams, helping first-, second-, and third-year medical students at Case Western Reserve University School of Medicine after semi-retiring from urology. **1971: Elliot Krames** of San Francisco recently retired as editor-in-chief of *Neuromodulation*, the journal of the International Neuromodulation Society, and president of the society. In addition, Krames recently published his book *Neuromodulation*. **1972: Joseph S. Shapiro** of Huntington Beach, Calif., reports that daughter Sharon is graduating this spring from the University of Illinois School of Medicine. **1975: Thomas F. Krajewski** and wife Eleanor of Towson, Md., are delighted to announce the birth of grandson Andrew McHugh. **Gary B. Ruppert** of Baltimore has been retired since suffering a major stroke in 2009. **1976: Edward F. Driscoll** of Holden, Mass., reports that he is healthy, has health insurance, and continues receiving a paycheck. In addition, none of his three daughters is wanted by the authorities, and he and second wife Dianne have a gaggle of terrific grandchildren. **Pamela A. Wilson** of Madison, Wis., has been working with the Wisconsin Safety Council, Wisconsin Lung Association, and other wellness organizations on the implementation of the new Wisconsin workplace and public area smoke-free law. She has given a dozen talks to employer groups and public meetings on the benefits of tobacco cessation programs and treatment, and recently served as a U.S. delegate to the Tobacco Dependence Treatment World-Wide Leadership Forum in Lisbon, Portugal. **1977: Richard J. Feldman** has formed a large internal medicine practice in Lanham, Md.

1979: Mary C. McKay of Huntsville, Tex., reports that she helped implement the new electronic medical records system at Texas Children's Pediatrics Associates, proving you can teach an old dog new tricks!

1980: Bradley Aiken of Miami reports that his medical-ly-oriented short stories have appeared in the science fiction magazine *Analog Science Fiction and Fact*. The medical director for rehabilitation at Baptist Hospital is a member of the Science Fiction Writers of America. **Paul E. Driscoll** of Indianapolis is medical director of the St. Francis Medical Group, a multi-specialty group consisting of 128 physicians. He continues practicing family medicine half time. **Phuong D. Trinh** of Rockville, Md., reports that brother **Frank**, '99, is doing great in private practice after joining him two years ago. Trinh enjoyed seeing everyone at the 30th reunion last spring. **1984:** Ellen S. Deutsch and Vinay Nadkarni of Media, Pa., are working at the Children's Hospital of Philadelphia. Deutsch is surgical director of the center for simulation, advanced education & innovation while Nadkarni is an endowed chair of pediatric critical care medicine. **Dale Meyer** and wife **Joy**, '89, of Voorheesville, N.Y., are proud to announce that son Eric is a freshman at the University of Maryland College Park. Fear the turtle! **1989:** Michael E. Lantz of

Elkridge, Md., was named 2010 innovator of the year, issued by the Maryland Daily Record. He is director of obstetrics at Saint Agnes Hospital and was recognized for his leadership in developing the hospital's OB rapid response team.

1990: William P. Cook of Bel Air, Md., is chief of orthopaedic surgery at Upper Chesapeake Medical System and looks forward to the system's integration with Maryland. **1992:** Virginia Powell of Roanoke, Va., is medical director of the pediatric intensive care unit at Roanoke Memorial Hospital. Daughters Lilly, age 10, and Laurel, age six, are doing well. **1994:** Ronald P. Silverman of Baltimore is chief medical officer for KCI Corporation while maintaining a part-time surgical practice. **1995:** Suman Mishra Golla of Pittsburgh is an associate professor in the department of otolaryngology at the University of Pittsburgh Medical Center where husband Dinakar also works. They have three children: Arjun, age five; Milan, age three; and Laila, age one. **Mitesh Kothari** and wife Erin of Hagerstown, Md., report that life is going well for them and their three children, ages 10, eight, and three. **1997:** Lee A. Maddox of York, Pa., is medical director of pulmonary service for York Hospital. He and wife Susan have two sons Logan and Ethan.

2001: Darren Feldman of New York City was married to Jennifer Leong, MD in Florham Park N.J., on September 5, 2010. **Siamak Moayedi** and wife Mercedes of Elkridge, Md., are expecting their second in March. They work in the emergency department at Mercy Medical Center and teach at Maryland. **2002:** Scott M. Katzen and wife Jodi are living in Arnold, Md., as Katzen is practicing consultative and interventional cardiology for Cardiology Associates based in Annapolis and Washington, DC. The position follows the completion of a cardiology fellowship at Maryland. **Matthew A. Smith** of Richmond, Va., is associate medical director for the hospitalist program at St. Mary's Hospital as well as its chairman of the department of internal medicine. **2003:** Jennifer Kitchen and husband Paul Lee of Yardley, Pa., welcomed daughter Olivia on September 2, 2008. Kitchen is an internist with Hamilton Physicians Group in Hamilton, N.J. **2004:** Antonette Brigidi Frasch of Devon, Pa., has joined the faculty at the University of Pennsylvania School of Medicine in the division of general internal medicine. **2007:** Jared Reaves of Norfolk, Va., is chief resident in the department of physical medicine & rehabilitation at Eastern Virginia Medical School. **2010:** Ije Akunyili of Bellaire, Tex., is enjoying her first year of emergency medicine residency training in Houston. She loves the warm weather and spending time with her five- and three-year old children. 🏠

The Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds, and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

in memoriam

Harold W. Eliason, '27

Pediatrics
Durham, N.C.
August 12, 2010

After a year of training, Dr. Eliason moved to Cumberland, Md., where he opened a pediatrics practice to become the city's first full-time pediatrician. When Memorial Hospital opened in 1929, Eliason was named chairman of its pediatrics department and during his early years of practice also served as assistant to Cumberland's health officer. In this capacity he made frequent home visits to vaccinate patients in order to contain spreading diseases. When he retired in 1981, Eliason was honored by the Cumberland mayor and city council as Cumberland's father of pediatrics. In retirement he relocated to Durham, N.C., and lived to be Maryland's oldest living alumnus at age 106. Eliason was preceded in death by wife Miriam.

Maurice H. Schneiman, '33

Psychiatry
Jenkintown, Pa.
February 12, 2005

Dr. Schneiman received training at Thomas Jefferson University Hospital and practiced psychiatry in the Philadelphia area. Affiliations included Friends Hospital and Albert Einstein Medical Center. He was preceded in death by wife Esther and is survived by three children and companion Magda.

Oscar Hartman, '39

Obstetrics & Gynecology
Sarasota, Fla.
October 28, 2010

Franklin Square Hospital was the location of Dr. Hartman's internship and residency training. Afterwards he opened a private practice with offices in Pikesville, Essex, and Landsdowne. For two years he served as chief of OB/GYN at Franklin Square, and he retired to Florida in 1981. Hobbies included wood carving, crafting stained glass, playing violin, and golf, as he was a founding member of Chestnut Ridge Country Club. Hartman is survived by wife Lee, three children, four grandchildren, and a great-granddaughter.

John J. Meli, '42

General Surgery
Naples, Fla.
May 22, 2009

Dr. Meli practiced general surgery in Naples after surgery training and served on the staff at Naples Community Hospital until retirement in 1985. He was preceded in death by wife Edith.

Elizabeth Acton Karns, '43D

Obstetrics & Gynecology
Salem, N.J.
October 15, 2010

Baltimore City Hospitals was the site of Dr. Karns' internship, followed by OB-GYN training at the Hospital for Women of Maryland. She practiced in Baltimore until the late 1960s. Acton Karns was a founding fellow and life member of the American College of OB-GYN. In 1982, she and husband **James Karns, '45**, returned to Salem where they purchased and restored her family's 18th century home which had been a stop on the underground railroad. Karns enjoyed gardening and horticulture and for seven years was a student at the Potter's Guild of Baltimore. She was an avid reader and twice traveled around the world. Acton Karns was preceded in death by her husband and one daughter, and she is survived by one son.

Robert J. Audet, '46

Obstetrics & Gynecology, Surgery
Hilton Head, S.C.
August 26, 2010

After an internship in Baltimore, Dr. Audet served as a physician in the Naval Reserve, stationed in the Pacific Theater aboard the USS Passumpsic. After the war Audet received residency training at Saint Mary's Hospital in Waterbury, Connecticut, where he later opened a private practice. For a time, the office was shared by father **Charles H. Sr, '17**, wife **Jeanne, '46**, and brother **Charles H. Jr., '46**. Audet practiced for 40 years, retiring in 1990. One year later they relocated to Hilton Head and helped found Volunteers in Medicine, a well-known national health clinic. Audet spoke French, was an avid golfer, and en-

joyed fishing and travel. He is survived by his wife and four children.

Elwin E. Stanfield, '49

General Practice
Fayetteville, NC
November 20, 2009

White Memorial Hospital in Los Angeles was the site of Dr. Stanfield's training. For 30 years he worked with the Veterans Administration in Fayetteville and was also a clinical instructor at the University of North Carolina School of Medicine. After retiring from the VA in 1979, Stanfield worked as director of the Clinical Nutrition Center, also in Fayetteville; he retired in 1991. Stanfield enjoyed boating, and he was preceded in death by wife Anna.

Gene D. Trettin, '49

ENT, Head & Neck Surgery
Arnold, Md.
December 2, 2010

Upon completion of training at Mercy Hospital in Baltimore, Dr. Trettin opened a general practice in Severna Park. He was recalled by the U.S. Army during the Korean War and received additional training in ear, nose, and throat at Walter Reed Hospital. Trettin later became head of the ENT department at Fort Meade. After discharge from the Army, he received additional training at Maryland, becoming its first full-time resident in otolaryngology and head & neck surgery. Trettin opened a private practice in Annapolis and served as chief of ENT and head & neck surgery at Anne Arundel General Hospital. He retired in 1982. Trettin was an accomplished pianist who enjoyed outdoor activities. He was preceded in death by wife Katherine and is survived by two daughters, two sons, 11 grandchildren, and four great-grandchildren.

Robert T. Thibadeau, '50

Family Medicine
Silver Spring, Md.
September 26, 2010

Dr. Thibadeau received training at Providence Hospital in Washington, D.C., and devoted his career to family medicine in

in memoriam

the Rockville, Maryland, area. Related activities included Montgomery Hospice and the Montgomery Literary Council. He retired in 1992 and a short time later moved into a retirement community in Silver Spring. Thibadeau remained busy through work with his church, and he also enjoyed music. He is survived by seven children, 14 grandchildren, and seven great-grandchildren. Thibadeau was preceded in death by wife Janette and one daughter.

Charles H. Lightbody, '52

Family Medicine
Guilford, Maine
July 21, 2010

Prior to medical school, Dr. Lightbody served in the Army Air Force during World War II. Worcester City Hospital in Massachusetts was the site of his two-year rotating internship after graduation. He operated a private practice and for 10 years served as chief of staff at Mayo Regional Hospital in Dover-Foxcroft. Lightbody was one of the driving forces behind the construction of the medical building in Guilford which was named in his memory. He was active in the Maine Medical Association, chairing three committees and serving on the executive committee for three years. He enjoyed fishing, hunting, gardening, golf, and participating in church activities. Lightbody is survived by wife Margaret. Together they had two children.

James H. Teeter, '54

General Surgery
Waynesboro, Pa.
March 1, 2010

Dr. Teeter interned at Baltimore's Mercy Hospital and received residency training in surgery at Church Home and Franklin Square hospitals. He entered private practice in Waynesboro in 1959, and in 1970 joined the faculty at Penn State University's Milton S. Hershey Medical Center where he was later elevated to clinical professor of surgery. Teeter served as president of staff and chief of surgery at Waynesboro Hospital, as well as president of the central Pennsylvania chapter of the American College of Surgeons and Franklin

County Medical Society. Beginning in 1963, he and wife Mae, RN, began working overseas medical missions for two months each year. He was honored for this work by the World Medical Mission in 1992 and the World Gospel Mission in 1996. Teeter also ran a summer camp on his property engaging more than 1,000 children. He enjoyed gardening. In addition to his wife, survivors include three sons and three grandchildren. Teeter was preceded in death by one son.

Frederick W. Plugge IV, '57

General Surgery
Chevy Chase, Md.
October 27, 2010

After medical school Dr. Plugge traveled to Montreal for a rotating internship at the Royal Victoria Hospital before returning to Maryland for his residency training in surgery. During this time he was a reserve officer with the U.S. Air Force, and after training in 1962 he entered active duty as a general surgeon assigned to the 7505 USAF Hospital at the Royal Air Force station in Burdett, England. Two years later he was back in America and entered private practice, but within six months Plugge returned to the military to complete a course in aerospace medicine at Brooks Air Force Base in Texas and remained in the military for the balance of his career. Appointments included chief of general surgery at Malcolm Grow Medical Center as well as Andrews Air Force Base where he was later named chairman of the department of surgery. During this time he was personally involved in providing medical support to U.S. dignitaries traveling abroad including President Gerald Ford, First Lady Rosalynn Carter, Secretary of Defense James Schlesinger, and Secretary of the Air Force John McLucas. In 1978, Plugge was tapped as chief of hospital services for the U.S. hospital in Wiesbaden, Germany, where in January 1981, he welcomed the 52 American hostages released by Iranian militants after 444 days in captivity. He retired as a brigadier general later that year. Plugge was a member of the 1807 Circle of the John Beale Davidge Alliance, the medical school's society for major donors.

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UNIVERSITY OF MARYLAND, INC.
522 WEST LOMBARD STREET
BALTIMORE, MARYLAND, 21201-1636,
OR FOR MORE INFORMATION SIMPLY CALL
410.706.7454.

His generous support funded a visiting professorship in neurosurgery in memory of classmate **Charles Henderson**, plus an endowed fellowship, professorship, and chair in honor of **Robert Buxton, MD**, Maryland's former chairman of surgery who supervised Plugge's training. Survivors include several cousins.

Elmer S. McKay, '59

Family Medicine
Phoenix, Ariz.
September 15, 2010

During World War II, Dr. McKay was a platoon sergeant with Company E of the 199th Infantry Regiment 30th Division. He was wounded three times and received two bronze stars as well as several service medals. Upon medical school graduation, McKay trained at St. Luke's Hospital in Denver. He practiced family medicine in Lander, Wyoming, from 1960 to 1968 followed by 10 years at IBM Corporation in Kinston and Endicott, New York. He returned to Wyoming and practiced family and occupational medicine in Green River until 1990. A short time later McKay relocated to Phoenix where he practiced part time. He was preceded in death by wife Doris and two daughters, and he is survived by one daughter and four grandchildren.

Robert R. Holthaus, '65

Pediatrics
Baltimore
November 19, 2010

Dr. Holthaus trained at Mercy Medical Center, and until retirement in 1997 practiced privately with offices on Northern Parkway and in White Marsh. He was a collector of autographs, and his collection includes Maryland figures Charles Carroll and Francis Scott Key, presidents Abraham Lincoln, Franklin Roosevelt, and John Kennedy, and actors Humphrey Bogart and

in memoriam

Ernest Hemingway. He was also a collector of decoys, toy soldiers, and history books. Holthaus was the 1992 state champion skeet shooter and an avid gardener. He is survived by wife Joan, four daughters, and four grandchildren.

Sheldon I. Brotman, '69

Surgery, Trauma
Pontiac, Mich.
July 18, 2010

Dr. Brotman interned at Kings County Hospital in Brooklyn, N.Y., and received residency training in surgery at the U.S. Naval Hospital in Great Lakes, Ill. He returned to Maryland for fellowship training in trauma at the Maryland Institute for Emergency Medical Service System. Academic appointments followed at Maryland, Georgetown University, Milton S. Hershey Medical Center, the Thomas Jefferson School of Medicine, and the University of Massachusetts. Most recently, Brotman had been serving as medical director of trauma services for St. Joseph Mercy Oakland in Pontiac. He wrote extensively on trauma

and critical care, authoring more than 70 publications and 100 abstracts and posters as well as serving as editor of the *Journal of Trauma*. Most of his free time was spent on his 49-foot racing sloop *Whisper*. Brotman enjoyed reading, was a Boston Red Sox baseball fan, and attended the Boston Pops and Boston Symphony. He is survived by wife Marilyn, one daughter, three sons, two step-daughters, and three grandchildren.

Edward M. Eisenbrey, '73

Obstetrics & Gynecology
Fort Washington, Md.
July 8, 2010

After training in OB/GYN, Dr. Eisenbrey moved to southern Maryland in 1976 to practice in Clinton and Waldorf. In 2000, he was elected treasurer of the Gynecologic Surgery Society. He enjoyed outdoor activities including fishing and hunting waterfowl. Eisenbrey was a member and range officer of the St. Charles Sportsman's Club. Survivors include wife **Jean, '73**, three sons, and one granddaughter.

Patricia J. Hebbard, '78

Pathology
Kensington, Md.
April 2010

R. L. Rudolph II, '80

Vascular Surgery
Parkersburg, WVa.
June 25, 2010

Dr. Rudolph completed residency training in general surgery at Baylor College of Medicine in 1985 and a vascular surgery residency at Baylor's Methodist Hospital the following year. He practiced general/vascular surgery in the Parkersburg/Marietta area and made several missionary trips to Guatemala, Russia, Nicaragua, and Honduras. He was an active member of the First Baptist Church of Williamstown where he volunteered at the Friendship Kitchen. He enjoyed snow and water skiing, kayaking, motocross racing, barrel racing, and scuba diving. Rudolph is survived by wife Nannette, eight children, and seven grandchildren.

Suresh Philip, '88

Cardiology
Richmond, Tex.
June 14, 2010

At age 17, Dr. Philip immigrated to the U.S. from India and lived with an uncle until attending college. He became a board-certified cardiologist after completing training in 1995. Philip was a partner in and served on the board of directors for South Texas Medical Clinics, and he was also active with the St. Thomas CSI Church. He is survived by wife Sherly and two sons. 🏠



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Schedule*

136th Medical Alumni Association Reunion May 6 & 7, 2011

Friday, May 6

8:30-10:30 am	Open House, Check-in & Continental Breakfast
9:00-9:45 am	Tour Maryland's Hospital: A Quarter-Century After Privatization
10:00-11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am-1:15 pm	136th MAA Luncheon & Business Meeting
1:30-3:30 pm	Afternoon Check-in, Davidge Hall
1:30-3:00 pm	18th Historical Clinicopathological Conference
3:30-4:30 pm	School of Medicine Tour
6:30-9:30 pm	The Happening at the Harbor, Baltimore Museum of Industry

Saturday, May 7

8:30 am-1:30 pm	Open House & Check-In
8:30-10:00 am	Continental Breakfast, Davidge Hall
9:30-10:30 am	Campus Walking Tour
10:45-11:45 am	Restoring Davidge Hall: An Update
11:30 am-2:00 pm	Complimentary Picnic, Davidge Hall
12:15-1:15 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:30-4:00 pm	Excursion to Fort McHenry
Afternoon/Evening	Class Reunions (years ending in "1" and "6")

University of Maryland

MedicineBulletin

Spring 2011 • Volume 95 • Number 4



Post Traumatic Stress Disorder:

The Invisible Wounds of War



University of Maryland Medical Center named *Top Hospital of the Decade.*

* * *

The University of Maryland Medical Center is one of two hospitals in the country – and the only one on the East Coast – to have been named a Leapfrog Hospital of the Decade for patient safety and quality.

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MedicineBulletin

University of Maryland Medical Alumni Association & School of Medicine



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The University of Maryland *Medicine Bulletin*, America's oldest medical alumni magazine, is jointly sponsored by the Medical Alumni Association of the University of Maryland, Inc., and the University of Maryland School of Medicine.

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features

Post Traumatic Stress Disorder: The Invisible Wounds of War 8

It's been known as soldier's heart, battle fatigue, and shell shock. There were cases of it recorded as early as the Civil War. Yet there was never an effective treatment. Today, however, soldiers suffering from post traumatic stress disorder can find peace through therapy. And one of the most progressive programs is available right here at Maryland, in conjunction with the Veterans Administration Maryland Healthcare System.

New Vision for a Storied Department 14

According to Stephen N. Davis, MD, there is no higher calling than caring for patients. And as the 13th chairman of a department of medicine now entering its third century of educating doctors, he believes the level of care is directly related to the depth of translational and clinical research generated by his faculty. The members now number more than 400 with 135 residents and 128 fellows.

A Doctor's Black Bag 22

It was no secret to anyone: during the late 19th and 20th centuries a well-dressed man carrying a black leather bag was easily identified as a medical doctor. But the bag was more than a symbol; in fact the doctor couldn't do much without it. What was inside that made him so capable while making house calls to patients? Writer and historian Wayne Millan takes a peek and tells us.

Alumnus Profile: Eric K. Johnson, '99 24 *Holding it Together*

Eric Johnson has seen it all. The chief of colorectal surgery and surgical endoscopy at Dwight David Eisenhower Army Medical Center in Fort Gordon, Ga., has made several deployments to the Gulf Region. Johnson earned the Bronze Star for providing surgical support to special operations forces, and he admits that the stress associated with combat can be overwhelming.

Alumna Profile: Teresa Cox, '96 26 *Commitment with a Smile*

After her four-year, military-supported medical education at Maryland, Teresa Cox owed the U.S. Navy four years of service. Now after 14 including time in the Persian Gulf, she willingly plans to stay on until retirement. The pathologist and medical director of a hospital is currently serving in Naples, Italy.

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Diabetes is one of the biggest public health challenges to face our world today. At least 171 million people worldwide have diabetes, a number that is expected to double within the next 20 years. In the U.S., 24 million people currently have diabetes with a further 50 million with pre-diabetes at high risk for the disease, costing us more than \$200 billion to manage each year. Diabetes also is the number one risk factor for heart disease and stroke, two of the leading causes of death for Americans.

This gathering storm of diabetes and related metabolic disorders has spurred us and our clinical partners to create a “nexus” of diabetes clinical management, education, research, and community outreach here in Baltimore. This exciting new effort will be overseen by **Stephen Davis, MD**, who is profiled in this edition of the *Bulletin*.

Dr. Davis is an internationally recognized endocrinologist and research scientist who joined the school last year from Vanderbilt University School of Medicine in Nashville. His own research focuses on the body’s mechanisms that defend against hypoglycemia as well as the mechanisms that cause increased heart attacks and strokes in diabetic patients.

As the professor and chairman of the department of medicine, the school’s largest department with more than 300 full-time faculty of physicians and scientists, and physician-in-chief at the medical center, Dr. Davis is ideally positioned to coordinate efforts to link existing diabetes research, clinical care, education, and outreach programs at Maryland together; so that they can truly function as a collaborative network and begin to have a significant impact on

this disease.

This gathering storm of diabetes and related metabolic disorders has spurred us and our clinical partners to create a “nexus” of diabetes clinical management, education, research, and community outreach here in Baltimore.

a nexus for activity in this new “supercenter” of diabetes care, and, eventually, it will link with 13 separate medical school departments and employ a truly multidisciplinary approach to addressing issues related to diabetes.

I believe we have little time to waste in preparing for the coming tsunami of diabetes, its related metabolic disorders, and their complications. In order to adequately prepare, we need to marshal all of our available resources and recruit additional talent and support services. We are very hopeful that under Dr. Davis’s leadership we will be well-prepared for the challenges ahead. 🏛️



E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs,
University of Maryland
John Z. and Akiko K. Bowers Distinguished
Professor and Dean, School of Medicine

The school already has a world-class clinical diabetes research program at its center for diabetes and endocrinology. The center, which offers the latest available diagnostic tests and therapies for diabetes, also administers a robust program of clinical trials testing the latest cutting-edge treatments and approaches, is headed by **Alan Shuldiner, MD**. It will be

EVENTS

Vaccinology Lecture Delivered by de Quadros

Ciro de Quadros, MD, MPH, executive vice president of the Albert B. Sabin Vaccine Institute in Washington, D.C., delivered the 17th Annual Frontiers in Vaccinology Lecture on December 8. The event is sponsored by Maryland's center for vaccine development. de Quadros spoke about the advances being made in vaccinology that are helping to eradicate diseases like polio, measles, and rubella around the world.

A former director of the division of vaccines and immunization at the Pan American Health Organization (PAHO), de Quadros was also was chief epidemiologist for the World Health Organization's Smallpox Eradication Program in Ethiopia; so he's seen first-hand how vaccines have helped prevent millions of deaths. Although malaria and yellow fever have not been eliminated, vaccines have conquered smallpox, polio, and measles in the majority of the world, particularly in the Western Hemisphere. de Quadros revealed that PAHO had to go door-to-door in some countries in order to get the population properly vaccinated, while other countries held national vaccination days to encourage citizens to protect themselves and their families.

Except in North America, where a small but vocal part of the population proclaims vaccines are more dan-



Ciro de Quadros, MD, MPH, with Mike Levine, MD, DTPH, head of the center for vaccine development

gerous than the diseases they prevent, de Quadros and his colleagues have found unwavering support for vaccination. Even countries at war have declared truce days so that people could be safely vaccinated, and guerilla governments have allowed the doctors and epidemiologists safe passage to do their work.

EVENTS

Diversity Dinner Features Hopkins' Weisfeldt

Myron L. Weisfeldt, MD, the William Osler Professor of Medicine and head of the department of medicine at the Johns Hopkins School of Medicine, was the featured speaker for Maryland's fourth annual Celebrating Diversity event on February 5. More than 200 alumni, faculty, students, and friends of the medical school attended the dinner at the Marriott Inner Harbor Hotel at Camden Yards. Weisfeldt spoke about his initiatives to diversify the faculty at Johns Hopkins over the past decade. He added that these efforts at both institutions are enriching both education and quality of medical care in the Baltimore community. **Elijah Saunders, '60**, professor of medi-



cine at Maryland, was the honorary chair for this year's event, while **Otha Myles, '98**, president of the MAA, served as master of ceremonies. Proceeds benefitted the **Dr. Donald E. Wilson Scholarship Fund**, an endowment established soon after Wilson's retirement as dean in 2006. Scholarship recipients **Linda Xu, '14**, and **Yemi Adebayo, '12**, spoke about the advantages they will have heading into training—namely that choices in career specialty will be passion based rather than debt driven. Last year Maryland's graduates averaged \$145,000 in medical school debt. 📖

Above: Maryland dean E. Albert Reece with Myron L. Weisfeldt, MD, and MAA president Otha Myles '98. Below: Maryland vice dean Bruce Jarrell with students Yemi Adebayo '12 and Linda Xu, '14.

EVENTS Classroom Lectures Available to Alumni for On-Line Viewing

More than 200 alumni registered and began viewing classroom lectures on the MAA website during the first 90 days they were made available. Sixty-nine lectures ranging from introduction to endocrinology to bacterial genetics were offered beginning in mid-September.

The lectures were previously delivered during the last year to students in Taylor Lecture Hall of the Bressler Research Laboratory. Alumni in good standing with the Medical Alumni Association have access to the presentations.

The MAA Board of Directors worked with officials from the medical school to make it happen, and the board has appointed **Gary Plotnick, '66**, professor of medicine and director on the board, to manage it. "We're creating a committee of alumni to drive this effort," Plotnick says. "There are hundreds of lectures recorded each year. More will be added once a determination is made on the types of lectures alumni have interests in viewing."

In addition to increasing the number of classroom lectures made accessible to alumni, the committee will look into the logistics of making available recordings of grand rounds as well as alumni lectures presented at other institutions.

"Everything is on the table right now," Plotnick adds. "In addition to the historical lectures already offered, we plan to add the annual Historical CPC. And who knows, perhaps even some old medical school follies."

Alumni interested in serving on the committee—whether local or living outside the area—should contact Larry Pitrof in the alumni office by emailing larry@medalumni.umaryland.edu or calling 410.706.7454.

Inaugural Classroom Lectures Available for On-Line Viewing

Cardiology

Aortic Valve Disease
Approach to the Patient with Coronary Heart Disease
Cardiovascular Nutrition & Hyperlipidemias
Cardiac Murmurs
Congenital Heart Disease
CV Sources of Systemic Embolism
Lipid-Lowering Drugs
Pathogenesis of Atherosclerosis
Primary Hypertension
Robotic Cardiac Surgery
Secondary Hypertension

Cell Function

Introduction to Ion Channels
Ion Channel Diversity

Clinical Practice

Aging—A Clinical Perspective
History of Health Care
Illness Through the Life Cycle
Medical Ethics
Race and Medicine
The Impaired Physician
The Musculoskeletal Exam

Endocrinology

Introduction to Endocrinology
Diabetes I
Diabetes II

Epidemiology

Reading Medical Literature

Gastrointestinal

GI Imaging
GI Surgery

Genetics

Clinical Genetics
Genomic Medicine—Current and Future
Introduction to Gene Mapping: Part I
Introduction to Gene Mapping: Part II
Molecular Genetics In Medicine
Stem Cells

Historical

2010 Historical CPC—Simon Bolivar
Impact of Infectious Disease
Panama Canal
The Life and Ethics of Albert Schweitzer

Immunology

Antigen Processing
Autoimmunity I
Autoimmunity II
Complement



Gary D. Plotnick, '66, professor of medicine

Effector Lymphocytes (T-Cells)
Effector Lymphocytes (B-Cells)
Immuno-Deficiency & Genetics
Immunology in the Clinic
Immunology Review
Innate Immunity I
Innate Immunity II
Molecular Mediators of Inflammation
The Immune System

Infectious Diseases

Bacterial Genetics I
Bacterial Genetics II
HIV-1 Biology
Host-Parasite Interactions I
Host-Parasite Interactions II
Introduction to Virology
Replication of Viruses
Virology Review

Neurology

CNS Disorders: Motor Disorders
Multiple Sclerosis & CNS Demyelination
Neurodegenerative & Prion Diseases

Pharmacology

Drug Delivery & Pharmacokinetics I
Drug Delivery & Pharmacokinetics II
Quantification of Drug-Receptor Interactions I
Quantification of Drug-Receptor Interactions II

Pulmonary

Pulmonary Function Tests

Renal

Acid-Base Disorders I
Acid-Base Disorders II
Hyponatremia: Disorders of Urinary Concentration
Hyponatremia: Disorders of Urinary Dilution

Rheumatology

Vasculitis

Medical Center Named Top Hospital of the Decade for Safety & Quality



The University of Maryland Medical Center has been designated by the Leapfrog Group, as a top hospital of the decade for patient safety and quality of care. The award recognizes the medical center's inclusion on the Leapfrog Top Hospital list every year since its inception in 2006. The medical center shares the top hospital of the decade honor with only one other hospital—Virginia Mason Medical Center in Seattle.

The Leapfrog Group's national survey measures hospital performance in a range of areas including patient-care outcomes, use of best practices, and patient-safety initiatives and measures of efficiency. It is the only national, public comparison of hospitals on key issues including preventing medication errors and infections and standards for performing high-risk procedures. Each year, Leapfrog adds new, more stringent performance measures and expands the criteria for hospitals to meet its standards.

"It is a tremendous honor to be one of only two hospitals in the nation recognized as a Leapfrog Top Hospital of the Decade for safety and quality," says **Jeffrey A. Rivest**, president and chief executive officer of the medical center. "It demonstrates that our entire staff—including clinical leaders, physicians, nurses, pharmacists, therapists, and support staff—is focused on providing the best patient care every day."

The Leapfrog Group is a coalition of public and private purchasers of employee health coverage formed a decade ago to work for improvements (or "leaps") in health care safety, quality and affordability. Initially

organized by the Business Roundtable, it is now an independent advocacy group working with a broad range of partners, including hospitals and insurers.

"The fact that we have been on the Leapfrog Group's list of the nation's top performing hospitals for the fifth year in a row demonstrates our intense focus on patient safety and quality of care," says

Lisa Rowen, DNSc, RN, senior vice president for patient care services and chief nursing officer at the medical center. "We have worked to create a collaborative, professional and meaningful environment for our nurses and other patient care staff, which, in turn, provides a solid foundation for high-quality patient care," she says.

"This recognition also validates the high level of support and partnership we have with the schools of medicine, nursing, pharmacy, social work and dentistry. Members of their faculty participate in many research-driven, quality-of-care projects within our hospital, helping us to elevate quality and patient safety to higher levels."

The medical center's 757-bed teaching hospital provides a full range of health care to people from throughout Maryland and the Mid-Atlantic region. It is a referral center for the most serious and complicated health problems in adults and children, including cancer, trauma, heart disease, neurological conditions, and organ transplants. 🏥



Psychological Damage Caused by BP Spill



THE EXPLOSION AND FIRE

on a BP-licensed oil platform in the Gulf of Mexico in April 2010 had huge environmental and economic effects, with millions of gallons of oil leaking into the water for more than five months. It also had significant psychological impact on people living in coastal communities, even in those areas that did not have direct oil exposure, according to Maryland researchers who worked in collaboration with the University of Florida, Gainesville. Study results were published in the February 17 online edition of *Environmental Health Perspectives*, a publication of the National Institutes of Health.

"We found that people living in communities with and without direct oil exposure had similar levels of psychological distress," explains **Lynn Grattan, PhD**, associate professor of neurology at Maryland. "People in both groups showed clinically significant levels of depression and anxiety. Also, when compared to people whose income was unaffected by the disaster, people with spill-related income loss in both groups had higher rates of depression, were less resilient and were more likely to cope using 'behavioral disengagement,' which involves just 'giving up' trying to deal with the problem," adds Grattan.

The Maryland investigators, who traveled to the region soon after the spill, worked with Gulf Coast community leaders to get "real-time" assessments of the acute impacts of the spill. Their goal was to measure the acute psychological distress, coping resilience, and perceived risk (concerns about the environmental impact and potential health consequences) of people

living along the Gulf Coast. By doing this, they could help identify the potential mental health needs of the Northwest Gulf Coast communities. They examined the psychological impact in two fishing communities: Baldwin County, Ala., and Franklin County, Fla. Baldwin County had direct oil exposure; Franklin County did not. The researchers defined indirect impact as a place where oil did not physically reach the coastline, but where anticipation of the oil spread significantly affected the community's recreation, tourism, and fishing industries.

The people in Florida, where oil had not reached shore, showed similar elevated levels of anxiety and depression as those living in Alabama who had direct oil exposure. Both groups had similar high levels of worry about the impact of the spill on the environment, health and seafood safety.

However, the levels of psychological distress were higher in both communities among people who had suffered income loss because of the spill. They had significantly more tension, anger, fatigue, and overall mood disturbance than those whose income was not adversely affected. These people also had lower scores on resilience and may have fewer psychological resources to bounce back from adversity.

"From a public health standpoint, we need to understand that when there is a significant environmental crisis, we need to extend public health outreach and education, psychological monitoring, and mental health services beyond the immediately affected areas, paying particular attention to people at risk for income loss. There are things that can be done to help people manage their stress and anxiety and cope in these situations; so these interventions need to be available immediately in the communities where the impacted individuals live," adds Grattan, who also serves as a neuropsychologist at the medical center.

The study on psychological impact was built on a research program by University of Florida investigators who were already in the area to study the acute environmental and health impact of the spill. Maryland researchers recruited 71 residents in Florida and 23 from Alabama for the psychological assessment. 🏠

IBM's "Watson" Computer to Aid Health Care?

Maryland is one of only two universities working with IBM to test the advanced analytics of the company's "Watson" computer for potential health care applications.

The computer program, known for besting two top champions on the TV show Jeopardy in February, has shown an amazing ability to comprehend human language, a barrier that has been a challenge for computer designers for many years. Watson can also absorb huge databases and then mine that information quickly.


Eliot L. Siegel, '82, professor of diagnostic radiology and nuclear medicine, is leading the project at Maryland. "The system also has the potential to ingest information from a single patient's electronic medical record in one facility or potentially multiple facilities and also to acquire information from multiple patients. It then has the ability to form multiple hypotheses in a manner similar to the way in which it understands the Jeopardy question and forms answers," he says.

In the health care setting, the Watson technology may be a powerful tool, helping doctors diagnose

patients. Siegel suggests the technology has the potential to result in a renaissance in the application of "artificial

intelligence" in medical data mining, data analysis, and decision support.

"I see Watson's capabilities, not as replacement for physicians, but as an adjunctive tool to organize, highlight, and prioritize information to make a physician more efficient and effective, and improve patient safety," adds Siegel. "In a manner similar to a physician who works with residents and fellows and medical students, our physician of the future might utilize this tool to provide improved patient care more cost effectively."

Siegel directs the Maryland Imaging Research Technologies Laboratory at the school. He also is head of imaging at the Veterans Administration Maryland Healthcare System. Columbia University is the other institution working on the health care applications for the Watson system. 



Eliot L. Siegel, '82

SIEGEL SUGGESTS THE TECHNOLOGY HAS THE POTENTIAL TO RESULT IN A RENAISSANCE IN THE APPLICATION OF "ARTIFICIAL INTELLIGENCE" IN MEDICAL DATA MINING, DATA ANALYSIS, AND DECISION SUPPORT.



Transitions



◀ **Edson X. Albuquerque, MD, PhD**, has retired as head of the department of pharmacology and experimental therapeutics. Albuquerque has served in this capacity since joining Maryland's faculty in 1974. Here he established a laboratory for electrophysiological studies of synaptic transmissions, and he grew the department into one internationally recognized for excellence and ushering in a high level of research funding. He continues on as professor of epidemiology & preventive health.

Alan R. Shuldiner, MD, the John L. Whitehurst Professor of Medicine, was promoted to associate dean and director of the program in personalized medicine. Shuldiner joined Maryland in 1997 as professor and head of the division of diabetes, obesity, and nutrition in the department of medicine, which became the division of endocrinology, diabetes and nutrition in 1999. In this new role, Shuldiner will be integrating the new program with an existing program in genetics and genomic medicine which he has headed since 2005. ▶



A close-up photograph of a soldier's torso and arms. The soldier is wearing a camouflage uniform with a mix of green, brown, and tan patterns. Over the uniform is a grey tactical vest with multiple straps and buckles. The soldier's arms are visible, also in camouflage. A black assault rifle is held in the lower right foreground, partially obscuring the soldier's arm. The background is a bright, hazy outdoor environment.

Post Traumatic Stress

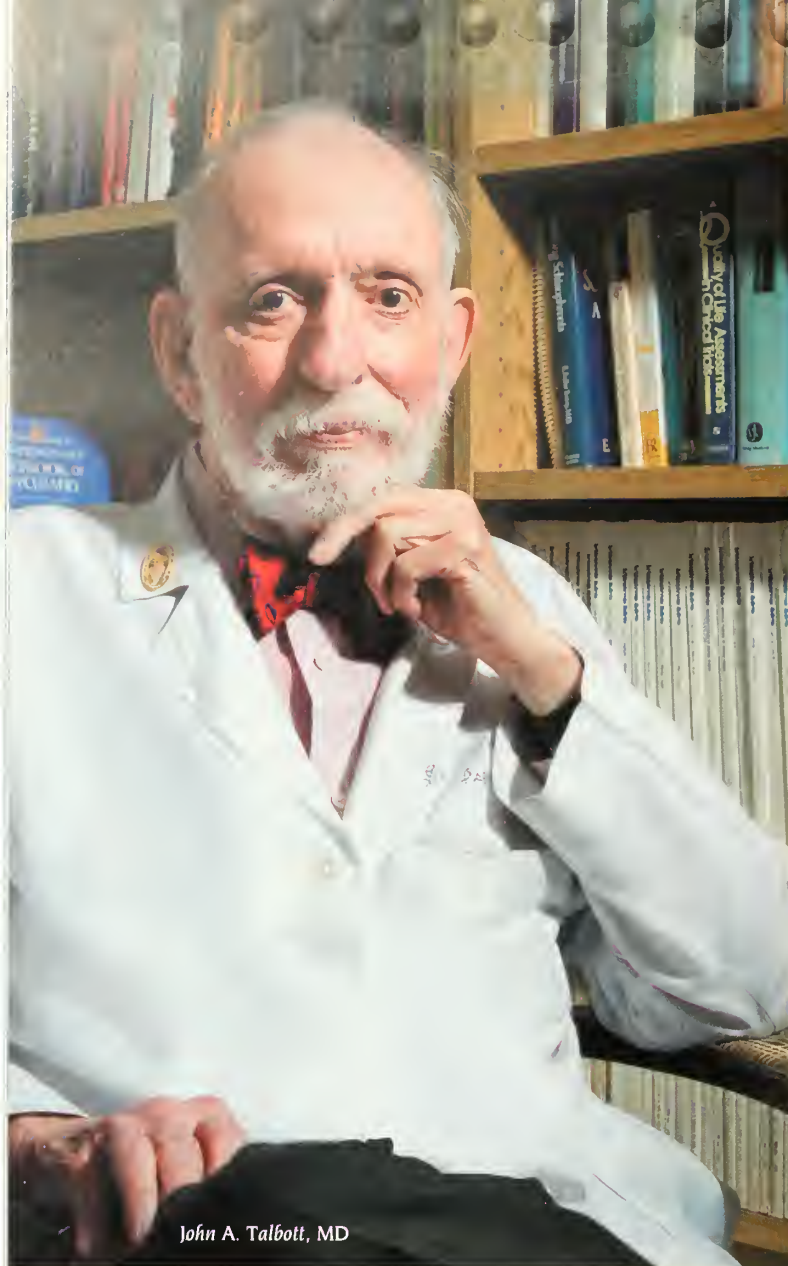
By Rita M. Rooney

The Invisible Disorder: Wounds of War

Vietnam, 1969: A young soldier, point man on patrol, lit a cigarette and, in doing so, dropped his lighter. As he bent to pick it up, a sniper shot at the sudden flash of light. Bullets flew past him as he bent to retrieve his lighter. But they made their mark. The soldier stood slowly to see the body of his buddy, slumped by his feet. It happened in the seconds stolen from war for a smoke. Now a man lay dead. For the friend who survived, guilt as relentless as it was misplaced, would dominate the next six years of his life.

Soldier's heart, battle fatigue, shell shock—all are names once attributed to an elusive attack on the mind and spirit that we now know as post traumatic stress disorder (PTSD). The soldier who lived to tell the story of that attack had recurring nightmares for many years. He was haunted by the unreasonable conviction that he too should have died on the battlefield, and as a result, he suffered depression, alcoholism, habitual job loss, and two failed marriages.

Faculty photos by Richard Lippenholz



John A. Talbott, MD

"His was a classic case of a serious disorder for which there was little scientific evidence at the time," reports John A. Talbott, MD, clinical professor of psychiatry at Maryland. The Vietnam veteran had been referred to Talbott after experiencing an unsuccessful tour through the medical system in search of disability benefits. Talbott, who served as a physician on the front lines during the Vietnam war, participated in a massive study, *Legacies of Vietnam*, detailing the impact of PTSD as it affects the military.

"We knew even then that PTSD affected brain function," he says. "But there wasn't much we could do. No one was shipped home from Vietnam except for severe physical injury. Our only resource was to prescribe sedatives, temporary rest, good food, and hot showers away from the noise and threat of battle."

This furlough-from-war style of therapy had its origin in World War I. There even are vague references to *soldier's*

heart in the Civil War, but it would be many years—and many wars—before a relationship between physical injury and mental distress was formally recognized. Fortunately, many Vietnam soldiers returned to the war zone seemingly unscathed by the trauma, and were able to resume normal, healthy lives upon discharge. There were countless casualties, however, men and women whose wounds would never heal.

Anthony F. Lehman, MD, professor and chair of the department of psychiatry, reports the school has a long and robust affiliation with the Veterans Administration Maryland Healthcare System (VAMHS). They are linked physically by an interior bridge that connects the buildings serving each, as well as by numerous faculty members with dual appointments at the VAMHS. Nowhere is this partnership more compelling than in the department of psychiatry, which shares a joint resident training program, and a commitment to helping returning veterans.

"We have had an ongoing relationship for many years with the VAMHS's trauma clinic," Lehman says. "The department is heavily invested, as is Alan Faden, MD, and the R Adams Cowley Shock Trauma Center, in caring for military returning from active service with neurological brain injury and PTSD."

He explains there is a close association between the two conditions. Milder forms of traumatic brain injury may occur concurrently with PTSD.

PTSD, however, plays its own singular role in the upheaval of young lives struggling to adjust to people and places they left behind, to families unaffected by the atrocities of war, and loved ones who might sympathize but would never understand the horrors of battle.

Understanding PTSD

When it comes to treating PTSD, the school and VAMHS conduct one of the most progressive programs available nationwide. It is among a few treating co-morbid trauma issues.

Joseph G. Liberto, associate professor of psychiatry, and the VAMHS's interim associate chief of staff for education and academic affairs, says "We have both an intensive outpatient program, and a residence facility, that provide specific interventions for veterans with PTSD and substance abuse problems." He explains that alcohol and drug addiction are inherent companions to PTSD, and stresses the importance of a seamless network of trauma and substance recovery programming.

Perhaps because it is an intangible disorder, PTSD has been misunderstood, misdiagnosed, or ignored by earlier generations. Following the Vietnam war, Talbott's study compared Vietnam combat veterans with non-combat vets and those who had dodged the draft. The authors conduct-

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Perhaps because **it is an intangible disorder**, PTSD has been misunderstood, misdiagnosed, or ignored by earlier generations.

ed eight-hour interviews, dissecting what had happened to the men in combat and upon their return to civilian life, and comparing the results with those not serving during the war. The conclusions were unmistakable in pinpointing the impact of PTSD on the lives of the military. It probably marked the beginning of recognition that the disorder presented a realistic rationale for disability and treatment, and paved the way for the evolution of specific therapies.

As much as veterans of Vietnam endured in the wake of battle, their reception upon returning home was no remedy for their PTSD. When they landed in the US, they were told not to wear their uniforms once they left the base, a caution imposed because of opposition to the war and to those who served. They found hostility in the job market, in housing and in their social circles. Many removed active service from resumes, and refused to admit they had been in the military. When a soldier did speak of having served in Vietnam, he was likely to be asked, "How many did you kill over there?" The culture of that time worked against a veteran's rehabilitation from PTSD in tantamount proportion to any lack of medical knowledge about the disorder.

Fortunately, those serving in Iraq and Afghanistan do not face the same contempt. They are regarded for their service, and enthusiastically welcomed home by friends and neighbors, including those opposed to the wars. As for treatment of PTSD, advanced therapies, better medications, and highly developed technology help chart a more positive future for its victims.

In evaluating the extent of PTSD, Aaron M. Jacoby, PhD, supervisory psychologist and coordinator of the VAMHS Trauma Recovery Program, says the first step is to try to get as much information as possible about the trauma itself.

"For instance, we ask patients who have experienced blast exposure in combat when and how an attack occurred, and how long they were unconscious," he says. "Some will say they weren't unconscious, just dazed. Others will remember a great deal about it. If they avoid thinking about it, they have a high probability of developing PTSD."

Treatment includes cognitive processing therapy (CPT) in a 12-session model during which veterans write and think about the impact of trauma on their lives, specifically about beliefs they may have about themselves and their experience.

Jacoby cites the example of a patient who may suffer from guilt that he didn't do enough to save a buddy's life. "Patients suffering this kind of guilt develop negative cognitions that undermine their self esteem and self worth," he says. "Our aim in treating them is to examine the reality of their guilt. It's easy for us to say such negative thinking is unrealistic, but it's very difficult for someone who has been traumatized to think it through. The hallmark of PTSD is avoidance, and the last thing these vets want to do is think or talk about the incident."

Therapists work with the patient in questioning any evidence that suggests there is cause for guilt. They may argue, "You were being fired upon. You were out of ammunition. A number of people had already been lost." Then they begin to examine evidence that is counter to the negative perceptions. CPT is designed to attack negative



Anthony F. Lehman, MD

For men and women traumatized by war, **avoidance becomes a manner of coping**, not just with their experiences, but with life itself. They must deal with both internal and external stress—internal relating to their memories, and external associated with the triggers in their environment, including people and places that loom as reminders of what they have been through.

thoughts with more balanced, realistic thinking. “The therapy is extremely successful,” Jacoby says. “But there must be readiness on the part of the patient. A veteran recently returned from battle may not be ready for this kind of intensive trauma work,” Jacoby reports. “He may first need to develop coping skills, and be engaged in relaxation therapy, anger management, and anxiety reduction.”

Prolonged exposure therapy (PE) is directed to vets with high anxiety related to a fear structure based on their war trauma. A Marine who survived an IED blast may become accustomed to scanning his environment. He may experience difficulty in driving in areas he associates with risk, such as underpasses or overpasses. He may drive erratically to avoid a perceived explosion. In other words, the trauma of a specific fear is generalized for these patients. Therapy includes “homework” assignments in which patients gradually challenge their fears by acclimating themselves to their home environment, for instance driving 30 minutes a day, or within a familiar area. Eventually, they place themselves back to the incident itself, reliving it over and over again with the therapist. The session is audio taped, and the patient listens to it every day. “The memory is like a horror film that is frightening the first time you see it,” Jacoby reasons. “The second time it doesn’t seem as scary. The third time it’s boring, and the fourth time, you don’t feel any anxiety. After repetition, most patients lose their fear.”

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Virtual Reality Therapy

A centerpiece of the program is virtual reality exposure therapy (VRET) that is based on the theoretical underpinnings of PE. It challenges patients to separate the memory of realistically dangerous situations from safe encounters that may be reminiscent of the danger. Sushma T. Roberts, PhD, clinical instructor, department of psychiatry, and co-director of the postdoctoral fellowship in PTSD and traumatic brain injury, reports the treatment is selective.

“The patient must be willing to engage in it,” she says. “We begin gradually, without the use of virtual reality, by having the patient develop his or her subjective units of distress (SUDS), grading stress levels in different situations on a scale from zero to 100.”

A patient relaxing at home may have a self-charted SUDS of zero that is raised to 50 when getting on a bus and 100 when entering a crowded mall. The goal is to encourage patients to tackle the most stressful situations repeatedly until they become less threatening.

“We know that a person cannot maintain a high anxiety level indefinitely,” Roberts reports. “Given enough time, usually about 45 minutes, anxiety will be reduced. The problem for patients is that once anxiety peaks, they tend to remove themselves from the stressful encounter instead of waiting it out. This negative reinforcement leads to avoidance.”

VRET involves high-tech technology, funded through the VA and available in relatively few programs nationwide. Roberts says it can be overwhelming for some and has to be used selectively. She also reports it is used in helping patients become more fully engaged in confronting avoidance. “Many don’t need it because they have overcome their avoidance issues through CPT and PE therapy. But for those who cannot fully engage their trauma issues, the results are excellent,” she says.

Patients wear a virtual reality helmet that positions two goggle-size miniature computer monitors close to the eyes. Position tracking devices keep the computer informed of changes in a patient’s head location. The VR scenery changes as the patient moves his or her head. The patient sits with feet on a platform that vibrates according to the action on screen. Visual, auditory, olfactory, and kinesthetic senses are engaged. The smell of diesel, weapon fire, burning rubber, even body odors replicate everything the patient has remembered about an attack.

Control is managed by a steering wheel the patient uses to drive a truck in the way a joystick is used in a video game. At all times, the therapist remains in contact, asking about a patient’s SUDS. The scenario is selected to match the patient’s trauma experience. It may be a city where an ambush is about to take place, or a seemingly peaceful road about to be blown apart by an IED. Suddenly, there is an

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explosion, a cloud of smoke, distant chaos. The patient's own memory is challenged. Was there one or more explosions, a ricochet bullet? Was that a Black Hawk overhead? Graphics detail his or her memory. There's blood, someone running at the left of the vehicle, pedestrians wounded by the roadside. People are shouting.

After many exposures to the virtual reality, begun with only the less threatening memories enacted, and leading to the focal point of PTSD, patients begin to see the traumatic experience for what it has become, a memory that is no longer dangerous.

"I can't be more passionate than I am about this exposure treatment," Roberts says. "To watch someone who a year ago avoided life turn into an active, well-rounded person who is a support to other patients is about as rewarding as any work can be."

In an initiative that encompasses an outpatient clinic, family intervention team and child trauma center, the residential program within the school/VAMHS partnership is perhaps the cornerstone of therapy provided to returning veterans tormented by ongoing PTSD. Some of those being treated in the 10-bed unit are Vietnam and first Gulf War veterans, still struggling with PTSD. Others are more recent victims of trauma, having served in Iraq and Afghanistan. They share a common bond—an affliction that persists much longer than many physical wounds of battle.

The unit is unlike any hospital environment, and resembles a dormitory more than a place where severe mental

distress is treated. The entrance is controlled by keys, and each patient has one. They come and go as they wish, visit the gym on another floor of the VAMHS, take a stroll to a neighborhood McDonald's, and walk by themselves to individual therapy, or with a friend to attend group sessions. Private patient rooms and common areas are homelike and include a laundry room, kitchen, and dining area. A refrigerator stocked with soft drinks bears a cautionary sign, "for patients only." Veterans in the residence facility, who come from the entire mid-Atlantic area as well as southern states, have access to telephones, TV, computers, and e-mail.

The average length of the program is six weeks, but it is often extended for patients who are doing so well in their therapy that they will benefit from expanded treatment modalities. Patients must first obtain a medical clearance. Any condition, such as anticipated surgery, must be stabilized before admission. At any given time, there is a waiting list, and it is no wonder, since it is the only residential facility in the country treating PTSD and substance abuse in an integrated program.

A long overlooked and serious threat to mental health that once traumatized military men and women after physical wounds had healed is today being met with effective therapies. PTSD has met its match in programs like the one conducted by the partners at Maryland and VAMHS. At their center is a recharged commitment to caring for those returning from active service, the men and women who bear the invisible wounds of war. 🏠



Joseph G. Liberto, MD, and Aaron M. Jacoby, PhD, in the virtual reality exposure therapy center

Aaron M. Jacoby, PhD can be contacted at aaron.jacoby@va.gov

New Vision



*Dr. Stephen N. Davis with a portrait of Nathaniel Potter, MD,
Maryland's first chair of medicine from 1807 to 1843*

FOR A STORIED DEPARTMENT

Discovery—that is what drives clinical enterprise, according to Dr. Stephen N. Davis, the Theodore E. Woodward Professor of Medicine and Chairman, Department of Medicine at the University of Maryland School of Medicine. To those with even a cursory knowledge of his work, it is clear that discovery also drives Davis. He is an internationally acclaimed endocrinologist and clinical research scientist who has been at the forefront of metabolic research for over 20 years and is renowned for his extensive original contributions to diabetes research.

Previously the Mark Collie Professor of Medicine at Vanderbilt University School of Medicine in Nashville, Davis was recruited to Maryland in 2009 to lead the department of medicine. The department's 401 full-time and part-time faculty and 290 volunteer faculty are responsible for training 135 residents, 128 fellows and 160 medical students—essentially educating about half of the state's practicing physicians. Perhaps less well known are the department's thriving and cutting-edge research enterprises. Today, the department ranks third on the American Association of Medical Colleges' list of research funding per faculty, on which the average funding is \$80,000 compared to Maryland's \$275,000.

"The department is now in the top 10 among public programs and the top 20 among all," Davis says. "The opportunity to move ahead into the most elite group is a daunting challenge, one we have accepted as a team, and which I hope to pursue through interdisciplinary clinical and translational research efforts, both within the department and collaborations with other schools and departments."

As chair, Davis has a vast, comprehensive vision for the future direction of the department. At the core of this vision is the expansion of clinical and translational research that addresses chronic diseases that have significant local, regional and national relevance, such as diabetes and obesity, cardiometabolic diseases, chronic organ failure, and infectious, inflammatory, and autoimmune diseases. Beyond efforts to prevent primary disease onset, emphasis will be placed on research directed toward providing targeted, specialized care to prevent and/or minimize the multiple complications that frequently arise in chronic disease states. Davis points out that diabetes, for instance, affects nearly all the body systems—from the eyes, to the heart, nervous system, brain, kidney, skin, and joints. A patient with diabetes is also exposed to several additional health risks, including high blood pressure and dyslipidemia leading to an increased risk of cardiovascular disease. Davis's plan is to have as many as 13 different but complementary health care providers working shoulder to shoulder in the care of patients with diabetes. This "one stop shopping" interdisciplinary paradigm is better equipped to respond to all of the patient's health needs, and provide a rich platform for our education and research missions.

Davis's vision for the department is a dramatic expansion of ambulatory care to meet the growing needs of the patients it serves. The concept is exciting but one that Davis already pioneered at Vanderbilt in 2005. Here at Maryland, the plan extends beyond clinical care to translational and clinical research as well as education and funding. The potential patient population base for such an undertaking

includes Maryland, the District of Columbia, and the six surrounding states.

Davis's hope for the department is that all the faculty and staff enjoy their work. "To fulfill this goal, we'll be setting up parallel tracks," he says. "A faculty member interested in clinical work will have the time to devote to his or her patients without the pressure of having to write multiple grants. Similarly, those who want to spend most of their time in research will have the opportunity to do so, and both will be working side-by-side in the interest of making important breakthroughs for our patients," Davis says.

So what is the glue that makes that kind of integration work in such a large research-intensive department; a department with more PhDs than any other; a department with 11 divisions competing successfully for more than \$180 million annually in research funding?

"You have to make everybody proud to wear the shirt," Davis answers, adding, "I think you have to set goals that are achievable. Objectives have to be logical and believable if you want to get people working together as a team and across disciplines. What I find exciting at Maryland is the group of collegial, forward-thinking leaders who want to build on what is here. There is a culture of collegiality at the school that is superb and which is not always found in large academic institutions."

One of the many aspects that drew Davis to Maryland was the level of talent among the department's faculty. He points to world-class programs and internationally regarded scientists across all divisions within the department of medicine.

That regard mirrors the mutual esteem of E. Albert Reece, MD, PhD, MBA, vice president for medical affairs and the John Z. and Akiko K. Bowers Distinguished Professor and Dean at the school. In expounding the significance of Davis's appointment, Reece notes, "During his 30-year career, Dr. Davis has balanced award-winning diabetes research with exceptional patient care, while assuming leadership roles within his institution and the international medical community."

Among the many honors to which the dean refers is the 2000 Novartis Award for Diabetes Research, considered one of the highest tributes in the field. Additionally, Davis was named fellow of the American College of Physicians in 2009, fellow of the American College of Endocrinologists in 2008, and fellow of the Royal College of Physicians in 2001. He has won the Grant W. Liddle Award for Clinical Research, the Medical Research Council Traveling Fel-

"The department is now in the top 10 among public programs and the top 20 among all."

lowship, the Mason Medical Research Foundation Award, and the Peel Medical Research Award, among others.

Davis's own research endeavors are currently funded by \$10 million in grants, primarily from the NIH. His studies focus on the physiologic mechanisms that defend against hypoglycemia, the most feared diabetic complication, which, in the most critical cases, can lead to coma and even death.

Hypoglycemia became his primary area of research because of its unfortunate tendency to increase in frequency as blood glucose control improves. "By getting blood glucose levels as close to normal as possible, patients risk having major hypoglycemic episodes," he reports. "This can be so troublesome that people with diabetes allow their glucose to become higher and increase the risk of tissue complications of the disease."

Describing himself as a clinical physiologist, Davis seeks to elucidate underlying disease mechanisms in patients with diabetes and develop treatment strategies based on his findings. With precise and powerful technology, the lab can determine rates of insulin secretion, changes in liver glucose metabolism, and levels of several hormones, all of which influence how the body defends itself against hypoglycemia.

Davis's research lab has identified and is actively studying several molecular targets within the brain that affect the body's ability to combat falling blood glucose levels. Autonomic control of metabolism has been another area of interest for the lab. Although the autonomic nervous system cannot be consciously controlled, it controls blood pressure, energy expenditure, and glucose production, indicating that it could be a key therapeutic target for prevention of hypoglycemic episodes during exercise and at rest.

Davis's research has been successful in identifying new treatments, which are currently being further studied in highly controlled scientific experiments. The team has found a drug treatment that stimulates the autonomic nervous system to reactivate the self-defense mechanism against hypoglycemia. The next step will be a randomized, controlled trial in the community to conclusively



Attending his investiture ceremony at Maryland are Dr. Davis (center) with son Ian and wife Frances

determine the benefits of preventing hypoglycemia and restoring the body's ability to defend against falling blood glucose.

The research team, under Davis, is also investigating the relationship between diabetes and


increased rates of heart attacks and strokes by measuring the effects of acutely raising or lowering blood glucose levels.

Davis is taking dramatic steps to fulfill his vision for the department and the school. One of the most extraordinary undertakings in the past year has been a 1,000-page grant application spearheaded by Davis and Alan Shuldiner, MD, professor & head, division of endocrinology, diabetes, and nutrition and director of the program in genetics and genomic medicine. The National Institutes of Health Clinical Translational Science Award (CTSA) is a \$50-million grant, which, if awarded, will provide funds for the development of a broad research infrastructure, involving approximately 25 institutions statewide

to be headed by the University of Maryland. This unique grant is aimed at linking the university to other colleges in the community for the purposes of analyzing complex data.

"The CTSA will be transformative for the University," says Davis. "Its components are a perfect match for the kind of interdisciplinary vision at the department of medicine and the school itself."

His goals for funding do not stop at the CTSA. Reaching for a place among the top 10 research-funded universities nationally, Davis says he seeks targeted funding, with more multi-investigator and translational research grants. The department plans to pursue funding opportunities that complement growth in both basic and translational research and ambulatory care.

Davis agrees that it all comes down to discovery. "I believe there is no higher calling in medicine than treating patients," he says. "And it is the breadth and depth of innovative research resulting in breakthrough discovery—that is a key measure of how well we can serve our patients now and in the future." 

MARYLAND'S CHAIRMAN OF MEDICINE

Nathaniel Potter	1807–1843
Elisha Bartlett	1844–1846
William Power	1846–1852
Samuel Chew	1852–1863
Richard McSherry	1863–1885
Samuel C. Chew	1886–1909
Gordon Wilson	1913–1922
Maurice C. Pincoffs	1922–1954
Theodore E. Woodward	1954–1981
John A. Kastor	1984–1997
William L. Henrich	1999–2006
Frank M. Calia	2006–2009
Stephen N. Davis	2009–

Stephen N. Davis, MBBS can be contacted at sdavis@medicine.umaryland.edu

Appointments to National Organizations



Shannan DeLany Dixon, MS, CGC

❖ **Shannan DeLany Dixon, MS, CGC** assistant professor, department of pediatrics, and director, masters in genetic counseling program, was elected to the board of directors of the National Society of Genetic Counselors.



Carol Greene, MD

❖ **Carol Greene, MD** professor, department of pediatrics, is serving as president-elect for the Society for Inherited Metabolic Disease. Appointed in 2009, her term ends in 2011. Additionally, Greene was chair of the workgroup of biochemical genetics and served on its clinical laboratory improvement advisory committee, of which **Erin Strovel, PhD** assistant professor, department of pediatrics, was appointed as a member.

❖ **J. Kristie Johnson, PhD** assistant professor, department of pathology, is a certified diplomate of the American Board of Medical Microbiology (ABMM). Johnson received her PhD at Maryland. To earn the ABMM credential, Johnson first met rigorous educational and experiential eligibility requirements and passed a comprehensive written examination. She has demonstrated the knowledge and skills necessary to direct laboratories engaged in the microbiological diagnosis of human disease. The ABMM was established in 1959 and is one of three boards of the American College of Microbiology administering highly stringent certification programs.



J. Kristie Johnson, PhD

Awards & Honors

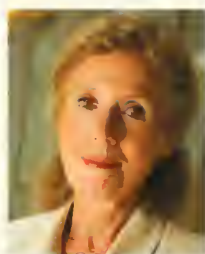


Claudia R. Baquet, MD, MPH

❖ **Claudia R. Baquet, MD, MPH** associate dean for policy & planning, professor, department of medicine, and director, center for health disparities, was honored as one of the St. George National Award

recipients for 2010 by the American Cancer Society (ACS). The St. George National Award, which recognizes outstanding volunteers who have made significant contributions toward achieving the society's strategic goals, is the highest honor awarded to an ACS volunteer. Baquet has served as a lead volunteer for the American Cancer Society since 1980 when she helped to launch the CPS II Study. Her expertise in work in health disparities has helped the South Atlantic division to define its strategy to focus on its underserved populations, specifically rural populations.

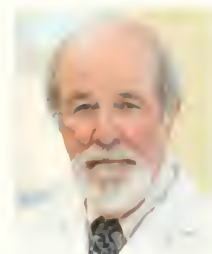
❖ **Angela H. Brodie, PhD** professor, department of pharmacology & experimental therapeutics, received the 2010 Jacob Heskell Gabbay Award in Biotechnology and Medicine. The Gabbay Award, administered by the Rosenstiel Basic Medical Sciences Research Center at Brandeis University,



Angela H. Brodie, PhD

recognizes outstanding strides in basic and applied biomedical sciences. Brodie was honored for her groundbreaking research in the development of aromatase inhibitors which combat the return of cancer in postmenopausal women by reducing the level of estrogen produced by the body. Her acceptance lecture was entitled "Aromatase Inhibitors and Breast Cancer: Concept to Clinic."

❖ **Frank Calia, MD, MACP** associate dean for clinical affairs, and professor emeritus, department of medicine, was elected vice president of the American Clinical and Climatological Association (ACCA). The ACCA



Frank Calia, MD, MACP

was organized in 1884 by a group of physicians and scientists who set about to improve medical education, research and practice in this country. Its initial concern was with tuberculosis and its treatment by residence in a suitable climate. Throughout its long history, the society has expanded its field of interest to that of all aspects of internal medicine. Its membership comprises physicians engaged in both academic pursuits and clinical practice. Members of the ACCA are selected on the basis of leadership and excellence in their chosen field.

❖ **Shannan DeLany Dixon, MS, CGC** assistant professor, department of pediatrics, and director, masters in genetic counseling program, received the 2010 National Society of Genetic Counselors (NSGC) Leadership Award for Outstanding Volunteer. The NSGC is a leading voice, authority, and advocate for the genetic counseling profession and is composed of numerous networks of committees, task forces, and individual members. The volunteer award is presented to two candidates for exceptional contribution and volunteerism to NSGC which represents more than 2400 health professionals.

❖ **Robert C. Gallo, MD** director, institute of human virology, and professor, department of medicine received the Paul G. Rogers Medical Science Award from the Friends of the National Library of Medicine. The award is named for the late Florida congressman who maintained a career-long commitment to public health and biomedical research. Widely known as "Mr. Health," Congressman Rogers often said, "Without research, there



Frank Bonner, MD president, Friends of the National Library of Medicine Board of Directors, and Robert C. Gallo, MD

faculty

is no hope!" Gallo received the award for his revolutionary discovery of the HIV virus and for his contributions to innovations in testing and treatments of the global AIDS epidemic



Jennifer Hopp, MD

❖ **Jennifer Hopp, MD**, assistant professor, department of neurology, received a teacher recognition certificate on behalf of the American Academy of Neurology (AAN) and the A.B. Baker Section of Neurologic Educa-

tors. The AAN recognition honors outstanding teachers of neurology who are nominated from within their respective departments.



Eric Manheimer, MS

❖ **Eric Manheimer, MS**, research associate, center for integrative medicine and director, Cochrane CAM Field Database, won first prize at the 5th International Congress on Complementary Medicine Research

meeting. The winning poster was a collaborative project with the Nordic Cochrane Center.



Andrew N. Pollak, MD, accepts the U.S. Army Medical Research and Materiel Command Award from Maj. Gen. James Gilman, MD, commander of the U.S. Army Medical Research and Materiel Command

❖ **Andrew N. Pollak, MD** professor, department of orthopaedics, received the U.S. Army Medical Research and Materiel Command Research Program Award for recognition of his work with U.S. Congress and the U.S. Department of Defense. Pollak developed the peer-reviewed orthopaedic research program and the orthopaedic extremity trauma research program. He was honored at the Ad-

vanced Technology Applications for Combat Casualty Care Conference.

❖ **Robert L. Rogers, MD**, associate professor, departments of emergency medicine and



Robert L. Rogers, MD

medicine, received an excellence in teaching award from the Emergency Medicine Residents' Association. This is the third national teaching award for Rogers and the 14th national teaching award presented to

emergency medicine faculty at Maryland.

❖ **Douglas D. Ross, MD, PhD** professor, and **Ann B. Zimrin, MD**, associate

professor, both from the department of medicine and program in oncology, along with **Deborah W. Shpritz, PhD**,

program director for palliative care education, program in oncology, **Susan D. Wolfsthal, MD**,

professor, department of medicine, **Timothy J. Keay, MD, MA-TH**, professor, department of family & community medicine and program in oncology, and **Hongbin Fang, PhD**, associate professor, department of epidemiology & public health and program in oncology, received first place for their poster presentation at the 2010 International Cancer Education Conference—a joint annual meeting of the American Association for Cancer Education, the European Association for Cancer Education, and the Cancer Patient Education Network. The poster was entitled "Implementation of Experimental, Competency-Based Palliative and End-of-Life Care Training for Internal Medical Residents and Medical Oncology Fellows."

❖ **John Sorkin, MD, PhD** associate professor, department of medicine, received a distinguished achievement award from the National Institute



Ann B. Zimrin, MD



John Sorkin, MD, PhD

on Aging. The honor recognized his teaching excellence after nearly two decades of service as a senior faculty member of the organization's summer institute on aging research.

❖ **Susan D. Wolfsthal, MD** Celeste L. Woodward Professor of Medicine, associate chair for education and director, internal medicine residency program, was awarded one of 10 Picker Institute/Gold Foundation Challenge Grants. She is developing an innovative project integrating successful patient-centered care initiatives and best practices into the education of future practicing physicians. Her study "Empowering Patients to Optimize Their Medication Regimens: A Multi-disciplinary Approach."

Events, Lectures & Workshops



Mordecai P. Blaustein, MD

❖ **Mordecai P. Blaustein, MD**, professor, departments of physiology and medicine, and director, Maryland Center for Heart, Hypertension & Kidney Disease, presented "Effect of (Endogenous)

Ouabain on Resistance Arteries: All Cardio- tonic Steroids Are Not Created Equal" at the investigator initiated satellite symposium of the International Society of Hypertension. The meeting was entitled "Pathogenesis of Essential Hypertension: Focus and Salt, Stress and Obesity," in British Columbia last September. In addition, Blaustein chaired the program committee for the Biophysical Society and Biophysical Society of China joint conference, "New Horizons in Calcium Signaling," in Beijing, China, in October. The program committee also included **W. Jonathan Lederer, MD, PhD** professor, department of physiology, and acting director, center for biomedical engineering and technology.

❖ **Kenneth H. Butler, DO**, associate professor, and **Amal Mattu, '93** professor, both from the department of emergency medicine,

were invited faculty members for the scientific assembly of the American College of Osteopathic Physicians in San Francisco last October. Butler presented lectures entitled "Ocular Emergencies" and "Controversies in Trauma Resuscitation." Mattu's presentations were entitled "Emergency Cardiology 2010: The Articles You've Got to Know!" and "Winning at Failure! Modern Management of Cardiogenic Pulmonary Edema."



Nicholas Carbonetti, PhD

Symposium, held in Baltimore last September. And **Victor Ayala**, graduate student in the molecular microbiology & immunology program who works in Carbonetti's lab, presented a short talk entitled "B. pertussis Infection Exacerbates Influenza Virus Infection through Pertussis Toxin Activity."

❖ **Svetlana P. Chapoval, MD, PhD,**



Svetlana P. Chapoval, MD, PhD

assistant professor, department of microbiology & immunology and center for vascular and inflammatory diseases, presented "Immune Semaphorins in Allergic Airway Inflammation" at the Osaka University Research Institute

of Microbial Diseases in Japan last August. Additionally, Chapoval participated in the 14th International Congress of Immunology in Kobe, presenting "Semaphorin 4A Downregulates Allergic Airway Inflammation."

❖ **John W. Cole, MD, MS**, associate professor, **Marcella A. Wozniak, MD, PhD** associate professor, **Barney J. Stern, MD** professor, **Steven J. Kittner, MD**, professor, all from the department of neurology, presented a poster entitled "Rare Variants in the Factor 5 Gene and the Risk of Ischemic Stroke" at the American Neurological Association's

135th Annual Meeting in San Francisco last September. This same month Cole presented "Genetics of Early Onset Stroke (GEOS) Exome Pilot Study" at the Gene Environment Association Studies consortium steering committee meeting in Washington, DC.

❖ **Howard Dubowitz, MB, ChB**, professor,

department of pediatrics, was an invited presenter at the Prevention of Child Maltreatment conference in Jerusalem last May. He presented "The Use of Evidence in Child Welfare Practice and Policy: An International Perspective on Future Directions." Also in May, Dubowitz was invited to speak at Boston University Department of Pediatrics where he presented "Neglected Children: A Challenge for Pediatrics."



Howard Dubowitz, MB, ChB

❖ **Daniel Farber, MD**, assistant professor, department of orthopaedics, presented "Orthopaedic Medical Education in the United States" during the Shanghai Foot and Ankle Symposium at Sixth Peoples Hospital in Shanghai. In addition, he presented "Lisfranc

Daniel Farber, MD

Injuries: Controversies and Contraptions" at the Chinese Foot and Ankle Association meeting in Wenzhou.

❖ **Gary Fiskum, PhD**, professor and vice chair for research, department of anesthesiology, presented lectures at the National Neurotrauma Society annual symposium in Las Vegas last June and at the Advanced Technology Applications for Combat

Casualty Care conference in St. Pete Beach, Florida, in August. His topic for both lectures was "Brain Injury Caused by Blast-Induced Hyper-acceleration"



Gary Fiskum, PhD

❖ **Ronald Gartenhaus, MD**, professor,

department of medicine, presented "Key Signal Transduction Pathways in Lymphoma" in New York last October at the Lymphoma & Myeloma: An International Congress on Hematologic Malignancies meeting. Additionally, Gartenhaus presented "MEK/ERK Signaling Regulates the Oncogenic Activity of MCT-1" at the Cleveland Clinic Department of Translational Hematology & Oncology Research Seminar Series in November.



Ronald Gartenhaus, MD

❖ **Amal Mattu, '93**, professor, department



Amal Mattu, '93

of emergency medicine, traveled to the Hong Kong College of Emergency Medicine last September to serve as the external examiner for the college's exit examination and to speak at its Scientific Assembly on Emergency Medicine. He presented the keynote lecture entitled "Ten Things You Must Consider in the Crashing Patient: Beyond A-B-C and ACLS," and he led a four-hour workshop on advanced ECG interpretation. Additionally in September, Mattu, and **Robert L. Rogers, MD**, associate professor, departments of emergency medicine and medicine, were invited faculty members to the 2010 Scientific Assembly of the American College of Emergency Physicians (ACEP) in Las Vegas. Mattu spoke on the topics of "Subtle ECG Manifestations of Deadly Cardiac Disease" and "Myths and Pitfalls of Wide Complex Tachydysrhythmias."

He also delivered "Pitfalls in the Diagnosis of the Acute MI" and led a two-hour advanced ECG workshop. Rogers' lectures were entitled "New Cardiac Drugs" and "Aortic Disasters. Are You Missing Them?" He also presented "Top Mistakes Emergency Medicine Applicants Make and How to Prevent Them" during the medical student symposium sponsored by the Emergency Medicine Residents Association held in conjunction with the ACEP symposium.

faculty



Kevin D. Pereira, MD

❖ **Kevin D. Pereira, MD** professor, department of otorhinolaryngology-head and neck surgery, was an invited speaker at the VII InterAmerican Association of Pediatric Otolaryngology meeting in Panama City, Panama. He presented "Pediatric and Neonatal Tracheostomy Laryngotracheal Trauma in Children." In addition, Pereira conducted a course entitled "Obstructive Sleep Apnea in Children" and presented, with **Alba Miranda, MD**, a PCY3 resident, department of otorhinolaryngology, a poster entitled "Bacterial Tracheitis in Children: Current Trends."

❖ **Brian M. Polster, PhD**, assistant professor, department of anesthesiology, presented



Brian M. Polster, PhD

"Calpain Proteases and Mitochondrial Dysfunction in Cortical Neuron Injury" at the 9th International Conference on Brain Energy Metabolism held in Budapest, Hungary, last July. Additionally in July, Polster presented

"Visualizing Calpain/Bioenergetic Interactions in Neuronal Injury" at the 2010 Federation of American Societies for Experimental Biology summer research conference in Carefree, Arizona.

❖ **David Rasko, PhD**, assistant professor, department of microbiology & immunology and institute for genome sciences, was an invited speaker at the 8th Annual American Society for Microbiology Biodefense and Emerging Diseases Research meeting in Baltimore in February 2010. His lecture was entitled "Diversity and Evolution of Diarrheal Pathogens: A Genomic Perspective." Additionally, Rasko presented "From Commensal to Lethal Infection. Genomic Analysis of *E. coli*



David Rasko, PhD

and *Shigella*" at the USDA Agricultural Research Center in Beltsville, Maryland in March 2010, and presented "Enteric Pathogens: Variations on a Theme" at the University of Idaho in April 2010.

❖ **Horea Rus, MD, PhD**, associate professor, **Cosmin Telga, PhD**, post-doctoral fellow, and **Susan Judge, PhD**, assistant professor, all from the department of neurology, and **Violeta Rus, MD, PhD**, associate professor, department of medicine, presented "Voltage Gated Potassium Channel Kv1.3 Mediate C5b-9 Induces Oligodendrocyte Proliferation" at the 14th International Congress of Immunology in Kobe, Japan, last August.



Thomas M. Scalea, MD, FACS, FCCM

❖ **Thomas M. Scalea, MD, FACS, FCCM**, Francis X. Kelly Professor of Trauma Surgery, and director, program in trauma, presented "Damage Control," and moderated two panels entitled "Cranial and Maxillofacial Trauma" and "Damage Control for Abdominal, Skeletal and Combat Related Injuries" at the Congress on Management of Trauma in a Combat Zone at Nunziatella Military School in Naples, Italy, last September.

❖ **Rosemary A. Schuh, PhD**, assistant professor, department of neurology, was an invited speaker at the 26th Annual International Neurotoxicology Conference in Portland, Oregon last June, presenting "Mitochondrial Dysfunction in an APP/PS1 Transgenic Mouse Model of Alzheimer's Disease." Schuh was awarded a travel fellowship to attend.

❖ **Loren P. Thompson, PhD**, associate professor, department of obstetrics, gynecology and reproductive sciences, served as organizing chair of the Aspen Perinatal Biology Conference on "Intrauterine



Loren P. Thompson, PhD

Stress and Adverse Fetal Outcomes" in Aspen, Colorado, last August. The conference was sponsored by the NIH, USDA, and Abbott

Foundation Grants as well as institutional support from the Universities of Maryland, Colorado, and Montreal. Held at The Given Institute, the conference featured 23 invited lectures and was attended by 74 investigators, postdoctoral fellows, and graduate students.

Book/Textbook Publications



Kevin Chen, PhD, MPH

❖ **Kevin Chen, PhD, MPH**, associate professor, department of family & community medicine and center for integrative medicine, served as the associate editor-in-chief of *Chinese Medical*

Qigong, published last March. The book is the first English edition of the only official textbook of medical Qigong used in colleges and universities of traditional Chinese medicine. It combines traditional therapies of Qigong with the most recent outcomes of modern scientific research.

❖ **Steven R. Gambert, MD, AGSF, MACP**



Steven R. Gambert, MD, AGSF, MACP

professor, departments of medicine and surgery, and co-director, division of gerontology and geriatric medicine, authored *Be Fit For Life: A Guide to Successful Aging*, published by World Scientific Press.

❖ **Amal Mattu, '93**, professor, department of emergency medicine, led a team of five editors and 18 associate editors in the publication of *Avoiding Common Errors in the Emergency Department*, a 398-chapter book published by Lippincott Williams & Wilkins last May. **George C. Willis, MD**, and **Alisa Gibson, MD, DMD**, visiting instructors, department of emergency medicine, contributed the chapters on cholangitis and facial fractures, respectively.

Grants & Contracts



Cynthia Bearer, MD

❖ **Cynthia Bearer, MD**, professor, department of pediatrics, received a one-year \$1 million grant from Gerber Foundation for her work entitled "Mercury in Donor Blood—A Possible Hazard for Preterm Infants." In addition, Bearer received a three-year, \$411,000 grant, to be used for the center for infant and child loss, from the Maryland Department of Health and Mental Hygiene.



Jeffrey Fink, MD, MS

entitled "Does Underrecognition of Kidney Disease Affect Patient Safety?"



Renee E. Fox, MD

Baltimore City, Inc., for her work entitled "Baltimore for Healthy Babies."

❖ **Claire Fraser-Liggett, PhD**, professor, departments of medicine and microbiology & immunology, and director, institute for genome sciences, received a three-year, \$1.9 million grant from the National Institutes of Health for her work entitled "Metagenomic Analysis of the Structure and Function of the Human Gut Microbiota." Fraser-Liggett's

award is for Phase II of research for her human microbiome project

❖ **Julie Dunning Hotopp, PhD**, assistant professor, department of microbiology & immunology and institute for genome sciences, received a five-year, \$2.25 million grant from the National Institutes of Health, Director's New Innovator Program for her work entitled "Impact of Bacteria-Animal Lateral Gene Transfer on Human Health."



Julie Dunning Hotopp, PhD

❖ **Dean L. Mann, MD**, professor, department of pathology, received a five-year, \$7.2 million National Cancer Institute grant for his work entitled "Resource for the Collection and Evaluation of Human Tissues and Cells from Donors with an Epidemiology Profile."

❖ **Robert V. O'Toole, MD**, assistant professor, department of orthopaedics, is the principle investigator for a \$2.4 million multi-center, randomized, controlled trial, "Novel Therapy to Reduce Infection after Operative Treatment of Fractures at High Risk of Infection," sponsored by the Department of Defense Peer Reviewed Orthopaedic Research Program, Office of the Congressionally Directed Medical Research Programs.

❖ **Vincent D. Pellegrini Jr., MD**, James Lawrence Kernan Professor and Chair of the Department of Orthopaedics, is the principle investigator for the Maryland site of a study to accurately assess critically important quality-of-life improvements achieved through hip and knee replacement surgery. The Agency for Healthcare Research and Quality has awarded the University of Massachusetts Medical School a \$12 million grant for this multi-center study involving six high-volume-centers.



Vincent D. Pellegrini Jr., MD

❖ **Raymond Penn, PhD**, professor, department of medicine, received a four-year, \$1.2 million R01 grant from the National Heart,



Raymond Penn, PhD



Alan R. Shuldiner, MD

\$5.6 million grant from the National Institutes of Health for the "Mid-Atlantic Nutrition and Obesity Research Center."

❖ **Sandford A. Stass, MD**, professor and chair, department of pathology, and interim chair, department of medical and research technology, received a five-year, \$2 million National Cancer Institute U24 award for the "University of Maryland, Baltimore Biomarker Reference Laboratory."



Sandford A. Stass, MD

❖ **Wayne Chienhwa Wang, PhD**, assistant professor, department of medicine, received a five-year, \$1.8 million R01 grant from the National Heart Lung and Blood Institute for his work entitled "Novel Mechanisms of Smooth Muscle Beta2-receptor Regulation Relevant to Asthma" 



Wayne Chienhwa Wang, PhD

Lung and Blood Institute for his work entitled "Allostasis Selectivity for GPCR in Airway Smooth Muscle"

❖ **Alan R. Shuldiner, MD**, John L. Whitehurst Professor of Medicine, and head, division of endocrinology, diabetes and nutrition, and **Andrew P. Goldberg, MD**, professor, department of medicine, and head, division of gerontology and clinical Geriatrics, received a five-year,


*Grants & Contracts of \$1 million and above

By Wayne Millan

A Doctor's Black Bag

The local GP needs to make a house call. A nearby family has phoned and reported that their young son is sweating profusely and "can't keep anything down." The physician quickly climbs into his sturdy Detroit-built sedan (no seat belts, but heavy steel fenders that could have stopped one of the Kaiser's artillery shells) and begins his drive down a rutted road under the light of a waning moon. Besides the cup of stale coffee he finds in his kitchen, what did he—and it was usually but not always a "he" in those days—take with him?

The Black Bag.



Where's the good old family doctor, with
his microscopic bills,
With his bag of plasters, powders, and
those evil-tasting pills?
How our troubles used to lighten and our
aches and pains abate,
when his shabby horse and buggy tied up
at the old front gate.

From "Exit the Family Doctor," *The Washington Post*, February 17, 1910

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rom at least 1938's *Young Dr. Kildare*, which starred Lew Ayres, down through the first television generation of the 1960s, the general public was treated to the sight of caring and intelligent physicians who always had their black bags at hand. Although the bag could occasionally be of brown leather rather than black, its design was reliable: a large valise with a split handle that allowed for quick access to the entire contents. This image of the black bag has lasted into the 21st century, long past the era of frequent house calls and in spite of medicine's increased reliance on expensive technology for diagnosis and treatment. In fact, toy companies continue manufacturing the "doctor's bag" for children who express an interest in one day joining the profession.

Whether it was an internist in the 1940s or a small child of 2011 wanting to "play doctor," just what would they find in such a bag?

Stethoscope, reflex hammer, tongue depressors, thermometer, otoscope, sphygmomanometer—tools that in some form or other have been around since the 19th century—they continue in use today. Medical museums have preserved examples of black bags from previous generations, and often the original contents are still with these bags. Besides basic instrumentation, the equipment and supplies could include ligatures, syringes, forceps, and medications such as aspirin, opiates, and (eventually) epinephrine, and penicillin.

A bag from the 1890s preserved at the Indiana State Medical Museum also shows that general practitioners on-call would need to be ready to perform suturing.

Doctors in rural areas might even carry with them what amounted to a mobile surgical unit in the back of their automobiles, although that practice was only common for a short period during the early 20th century. Yet even as medical care became more specialized and modern emergency care developed in the middle years of the 20th century, physicians continued to make use of the black bag and to maintain its iconic status.

Frank Calia, MD, emeritus professor and former chair of Maryland's department of medicine, remembers how, as a medical student at Tufts University in the late 1950s, he purchased his first black leather bag during second-year training in physical diagnosis. Students were also required to purchase instrumentation.

"The most expensive item was the ophthalmoscope. It cost much more than the bag," recalls Calia. He and his colleague Philip Mackowiak, '70, professor of medicine, also remember receiving small versions of the black bag from pharmaceutical representatives. These were generally given to young physicians at the time of their graduation and featured samples of the company's medications and supplies. A similar custom remains true today.

Elsewhere in the developed world, the tradition of the black bag has long been familiar. Trisha Greenhalgh, MD, of London wrote (*British Medical Journal* 315; Sept 6, 1997) of how, at the inception of the British National Health Service during the late 1940s, "no self-respecting family doctor would leave for his house calls" without a bag containing "a sheaf of gleaming scalpels, two pairs of obstetric forceps ... and a gadget for draining the pus directly from the middle ear." In less-developed countries, the chief difference was medications—as in India, where Greenhalgh reported that in "a formulary of 10, half of the drugs were for either tuberculosis or malaria."

Changes in technology brought some startling alterations to the contents of the black bag. Theodore Van Dellen, author of a regular column in the *Chicago Daily Tribune*, wrote on September 28, 1953, that "Other [doctor]s carry non-emergency remedies to relieve specific kinds of distress ... some go so far as to include material for a disaster such as the possibility of a communist attack with atomic weapons."

Yet by the early 1960s physicians were already waxing nostalgic for the black bags of old. Luther Terry, MD, then Surgeon General of the United States, was interviewed by the *Baltimore Sun* in its April 23, 1963 edition. He reported that the development of group practices and medical centers meant a further "decline of the family doctor, old-fashioned, house-calling, black-bag toting."

Author Wayne Millan has been working behind the scenes of Maryland's historical CPC for the past decade. A teacher and historian, he recently entered the world of on-line learning by teaching an intensive class in Classical Latin through the George Washington University.



By Bill Atkinson

[ALUMNUS PROFILE]

Holding it Together

Eric K. Johnson, '99

For Johnson and other veterans, the images of war will be etched in their memories forever. The memories don't haunt Johnson, but a song, a special day, or a smell brings the images back to life.



AFTER THREE TOURS as an Army surgeon in Iraq and Afghanistan, Eric K. Johnson, '99, has seen it all: gunshot wounds, head trauma, abdominal injuries, shredded limbs, and burned bodies. But there are images that will stick with him for a lifetime, like

the blank eyes of a battalion commander watching his men die.

"That image of his eyes is something I think I will never forget," says Johnson, who served as a trauma, general, and colorectal surgeon in the 10th Combat Support Hospital in Baghdad in 2005 and 2006 during his first tour.

The battalion commander arrived at the 10th with six soldiers, victims of an improvised explosive device that destroyed their Humvees.

"These guys were blown apart," says Johnson, chief of colorectal surgery and surgical endoscopy at the Dwight David Eisenhower Army Medical Center in Fort Gordon, Ga. "I remember looking into his eyes. I could see the anguish. It is indescribable. He was in a state of shock. He was standing there with this blank stare on his face. He was looking at his soldiers who were dying or dead."

For Johnson and other veterans, the images of war will be etched in their memories forever. The memories don't haunt Johnson, but a song, a special day, or a smell brings the images back to life.

Indeed, there was plenty that went on in the 10th that would be hard to shake. Known in Baghdad as Ibn Sina Hospital, the 10th was the busiest hospital in the war on terror where more than 20 surgeries could be performed in a day during the peak of the war. The hospital was so busy HBO featured it in a documentary, *Bagdad ER*, which was released in 2006.

"The stuff you see over there is just amazing," says Johnson, age 41, who received a Bronze Star Medal for providing direct surgical support to special operations forces in "far forward combat environments" during Operation Iraqi Freedom and Operation Enduring Freedom.

"Every day we would go to the trauma resuscitation bay area and would say, 'No way are we going to see something worse than what we saw yesterday.' But afterwards the response always seemed to be 'Good Lord.'"

One night, a large group of marines took heavy casualties after an explosion. "We just kept doing amputation after amputation after amputation," Johnson recalls. "It got to the point where I had had it. I said to myself, 'I don't care; whatever comes in I'm not cutting it off.'"

Another day, an Army MP's vehicle was blown up by a roadside bomb. Johnson steeled himself before performing the amputation; it didn't seem right to have to cut off the leg of an attractive young woman. "It was really hard to cut off her leg," he says. "Maybe it was my daughter I saw in her. It really bothered me."

Johnson grew up in Columbia, Md., where his father worked for the National Security Agency, and his mother ran the credit card department for a credit union. He wanted to become a doctor since he was a boy. "I got pretty ill," he says. "I just had



Johnson, left, performing a below-the-knee vascular repair in 2005 at the combat support hospital in Baghdad

a bunch of contact with doctors at a very young age, and I told my mom I wanted to become a doctor. Helping people was a big part of it.”

But Johnson’s dream looked far fetched. He wasn’t a good student, and his mother worried about paying for college. Since the Revolutionary War, the men in Johnson’s family had served in the military; so in 1987, he enlisted in the U.S. Army.

Along with basic combat training, Johnson took medical and allergy & clinical immunology specialist courses. When his three-year enlistment was up, he enrolled at the University of Maryland College Park with the goal of later attending medical school.

He was a different student in college, acing almost every class. Then it was on to Maryland in 1995 where he planned to become a heart surgeon, then a radiologist, and finally settling on becoming a colorectal surgeon. He also worked in Shock Trauma where he found the race to save lives exhilarating. “I fell in love,” he says.

During Johnson’s first day in Shock Trauma, he worked on a gunshot victim who needed a thoracotomy. He was nervous putting in the arterial line, but it went easier than expected, and he was buoyed by his success.

After graduation, Johnson received residency training in general surgery at Dwight David Eisenhower Army Medical Center. In 2004, he became a clinical fellow in colon and rectal surgery at the Georgia Colon

and Rectal Surgical Clinic. By 2005, he headed to Baghdad to work with the 10th Combat Support Hospital. He remembers leaving his wife and children for the first time.

“Any deployment is tough on the family,” says Johnson, who is father to three daughters. “Your spouse is afraid you will get killed. You come home, and your kids don’t know you. It is tough from that standpoint.”

But Johnson wanted to save lives and experience war first hand. “I was excited to go,” he says. “It’s like being a football player; you don’t want to sign up and sit

on the bench. My number one priority was taking care of soldiers. They needed me, and I wanted to be at the tip of the spear.”

For an adrenaline junkie like Johnson—he ran a skydiving and aerial photography business and summited Mt. Rainier, Mt. Elbert, Pikes Peak, and Maine’s Mt. Katahdin navigating a 2,000-vertical-foot ice climb—Iraq and Afghanistan were also places to test his abilities.

During his tours, Johnson was involved in classified combat missions. “There are forward surgical teams, but these were forward of even those,” he says. “We were at the point of combat with bullets flying.”

On one mission, the unit’s goal was to “capture some high-value individuals,” Johnson says. Fighting erupted as the team crept toward a compound. There was an explosion, and a young soldier in special operations was hit, and his arm and leg were ripped off. Johnson tried to save him.

“This kid bled to death,” he recalls. “We did what we could.”

Johnson thinks of the young man often; he wears a memorial bracelet honoring him. On Veterans Day and holidays he says a prayer for him.

“I remember looking into his eyes as he was dying,” Johnson says. “There is this look that the dead or dying have that is unmistakable. It’s unforgettable once you see it. That is something I’ve seen too often.”

[ALUMNA PROFILE]

Commitment with a Smile

Teresa Cox, '96

There are pros and cons to any choice, civilian or military, but from where I stand, this provides a great career path for those pursuing both clinical care and executive medicine.

SHE JOINED THE NAVY and is seeing the world. But for Commander Teresa Cox, '96, pathologist and medical director of hospital and clinic laboratories at the U.S. Naval Hospital, Naples, Italy, a decision to spend a career practicing military medicine is rooted in commitment. Her current assignment calls for restoring health and insuring the readiness of the military.

"Wherever we serve, our mission is to provide readiness," Cox reports. "There are periodic evaluations to insure that all active duty personnel are ready to be deployed at a moment's notice."

In addition, Navy physicians serving at the base provide medical care, not only to active duty men and women, but to their families, NATO forces and their families, and those in retirement as well. The hospital provides medical support to deployed troops. When deployed to serve in clinics, hospitals or on the battlefield, they go in support of Marines and Army troops in addition to those in the Navy.

As a teenager, Cox was a baby-sitter for the children of the commanding officer at the hospital at Langley Air Force Base. When he learned she was interested in attending medical school, he encouraged her to apply for a military scholarship. She did so and was one of a handful of applicants among several hundred to receive a Navy scholarship covering her medical education. Her required commitment to the Navy was a year for a year—in other words, a year serving in the Navy for every year of her education earned through scholarship. Today, after 14 years of service, she is still a Navy doctor, and plans to remain one until her retirement.

"I would encourage medical students to consider a military career, especially one in the Navy," she says. "There are pros and cons to any choice, civilian or military, but from where I stand, this provides a great career path for those pursuing both clinical care and executive medicine. Of course, there are opportunities for executive medicine in any hospital organization. But while it may be a choice in civilian life, it is definitely encouraged in the military."

She adds that she remembers being especially impressed by what the Navy offered when she interviewed for her residency at the U.S. Naval Hospital in San Diego.

"Throughout my four-year residency, I was fortunate to benefit from the didactic training offered, the ratio of faculty to residents, and the practical, well-rounded experience we received that prepared us to take assignments such as the one I have now."

While Cox isn't likely to be deployed from her current assignment as the only pathologist at her base, deployment was a possibility when she was stationed in San Diego or at Camp Pendleton, California. Today, her primary role is in supporting surgeons in the hospital and clinics, providing pathology for everything from tissue biopsies to cytology. As medical director of the clinical laboratory, an ancillary service, she interacts with a steady stream of patients.

No one can say Cox is among those who joined the Navy and never saw the sea. From 1997 to 1999, she was assigned to the USS Boxer, a helicopter carrier that served

as a casualty-receiving ship in the Persian Gulf. Of her time there following the first Gulf War, she recalls, "Ours was a formidable presence at a critical time in Naval history."

Cox's husband, who is in quality management and is a six sigma black belt trainer, is with her in Naples, and she reports that the two enjoy the "Italian Experience," including culture, food, and wine.

If there is a downside to military life overseas, it is of course the inability to visit family and friends at home as often as one might like. However, there are compensations, among them, the closeness that makes them a "band of brothers and sisters" to each other.

"We support each other so well that we become a second family, a Navy family, to one another," she says. "We recognize we are in this together, and we work as a team."

Another benefit is travel. Cox and her husband are taking advantage of seeing much of Europe while stationed in Italy.

"Our favorite city is Paris," she says, "but we have explored several parts of Italy on long weekends including Rome and Milan. We love Tuscany, which is only a three-hour drive, and we've been to Vienna, Prague, and spent Christmas in Barcelona, another favorite place of ours."

The recipient of more than a dozen military honors and awards, Cox has twice been awarded the U.S. Navy and Marine Corps Commendation Medal, the Surface Warfare Medical Department Officer Award, and the NEHC Gold Star Award for Excellence in Health Promotion, USS Boxer.

In remembering her years at the SOM, Cox recalls that the Homer Gudelsky Building neared completion while she was there. She talks of the variety of cases she was able to observe, the advantage of rotations at the adjoining VAMHS, and the "fantastic" faculty who guided her through rotations in surgery, OB/GYN, psychiatry, and neurology. Looking back, she says the school was key in preparing her for her surgical internship in the Navy.

"One of the most striking things that I often think of is the diagnostic focus we were taught—not to look at the patient as a single entity needing a specific medication, but to know so much more about him or her. We were taught to know what was going on in a patient's life. Did he work full time? Does she have children to care for? Is there an elderly person at home needing care? We called it the bio-psycho-social model. Today we call it family centered care, and it is so important in what we do here. I'm grateful it was emphasized so well in medical school."

For Cox, Navy life began as an opportunity to advance her medical education. It has at times been an adventure. But it is, most of all, a commitment to serve—both her profession and her country. 🇺🇸



170 Years Ago

In 1841, William Power, class of 1835, introduced Laennec's innovations of auscultation and percussion to Baltimore. Power was named visiting physician at the Almshouse after studying in Paris under Pierre Louis. Nine months later he became resident physician, and he soon began teaching two courses of lectures on physical examination of the chest. He was named professor of theory and practice in 1845.



75 Years Ago

In 1936, The Medical Alumni Association, overburdened with debt in running the university's bookstore and cafeteria, filed for bankruptcy. It immediately reorganized itself under the direction of William H. Triplett, class of 1911, who guided its activities for more than 50 years.



Dr. Plugge with President Jimmy Carter

30 Years Ago

In 1981, Frederick "Fritz" W. Plugge IV, class of 1957, was commander of the U.S. Air Force Hospital in Weisbaden, Germany, which received 52 American hostages released by Iranian militants after 444 days of captivity. Plugge, a surgeon, later retired with the rank of brigadier general.

A look back at America's fifth oldest medical school and its illustrious alumni

student activities

Class of '13 Treated to Reception

More than half the members of the second-year medical school class enjoyed a reception shortly after returning to class in January. The annual event provides a social setting to promote cohesion among classmates. It was held at Alewife, a local pub within walking distance of campus. Sponsored by the Medical Alumni Association, the event was underwritten by **Carolyn McGuire Frenkil**, a member of the medical school's board of visitors.

LinkMD Lecture Focuses on Law

Lisa S. Pichney, '87, a Baltimore-based gastroenterologist, spoke to about 20 students about medicine and the law on January 13. The event, sponsored by the MAA, was organized by **Ian Oppenheim, '13**, and LinkMD, a network designed to help students prepare for professional life through social interactions with faculty and alumni. Pichney was accompanied by **Michael K. Wiggins, Esq.**, an attorney specializing in medical malpractice defense with Wharton Levin Ehrmantraut & Klein based in Annapolis. The event was held in Davidge Hall.



Michael K. Wiggins, Esq., (back row third from left) and Lisa S. Pichney, '87, (middle row third from left) with students after their LinkMD lecture

Promoting Health at the Annapolis Harbor

Since his first year of medical school in 2008, **John Bergquist, '12**, and several classmates have been promoting healthy living at the Annapolis Harbor. They string lights on Bergquist's sailboat and participate in a parade sponsored each year on the second Saturday of December by the Eastport Yacht Club. Their message was "healthy holidays," from the "UM Med School." This past year the design didn't garner any awards, but the local newspaper placed their photo on its front page. 📰

Top: Sarah Ullah, Skyler Lentz, event sponsor Carolyn Frenkil, and Andrew Tkaczuk

Middle: Second year students (from left) Jennifer Siu, Soo Jung, Sasan Salimian, Elizabeth Eden, Krupa Patel, Andrew Barbera, and Ari Hameroff

Bottom: Healthy living at the Annapolis Harbor

advancement

Banks, Hargrave, Myles Join Board of Visitors

The medical school's board of visitors has added three new members including two prominent business leaders and president of the Medical Alumni Association.



Kenneth R. Banks

Kenneth R. Banks is the founder and president of Banks Contracting Company, Inc. He has forged strategic partnerships with five of the top 20 construction firms in the U.S. for projects totaling more than \$1 billion. He also serves on the Johns Hopkins Bloomberg School of Public Health Advisory Board and is a member of two regional think tanks: the Chesapeake Crescent Commission and the Building Energy Solutions Today

Consortium. Banks was inducted into the Maryland Business Hall of Fame by the Maryland Chamber of Commerce in 2010 and named Entrepreneur of the Year by the Black Engineer of the Year Global Competitiveness Conference in 2009.

Jeffrey L. Hargrave is president of Mahogany, Inc., a construction company specializing in architectural millwork and general construction. Headquartered in southwest Baltimore, the company has annual sales grossing more than \$6 million. Mahogany, Inc. has nearly 20 strong years of service to the construction industry as a subcontractor and more recently



Jeffrey L. Hargrave

as a general contractor. The firm was honored as one of the largest minority-owned businesses in Maryland by the *Baltimore Business Journal*.


Otha Myles, '98, has served on the Medical Alumni Association Board since 2003 and is the current president. He is an assistant professor in the department of medicine at Maryland. Until 2009, Myles worked as an infectious disease physician and as the deputy chief of epidemiology and threat assessment at the Walter Reed Army Institute of Research, United States Military HIV Research Program. He was involved with HIV research projects in the United States, Europe, and the Caribbean. He is a member of the College of Physicians-American Society of Internal Medicine as well as the Infectious Disease Society of America.

Recent Gifts Support Endowed Faculty Positions, Scholarships

In the coming months, the school will hold investiture ceremonies in connection with new endowment gifts for faculty positions. **Frederick H. Prince IV** and wife Diana contributed \$2.85 million through a family trust to establish a distinguished professorship in the department of neurology. The endowment will carry the term of "distinguished professorship" because the gift exceeds the threshold level of \$2.5 million, which is the same level required to fund an endowed department chair (the amount required for a normal professorship is a donation of \$1.5 million). The Princes made their donation in honor of and in gratitude for **Stephen G. Reich, MD**, a professor in neurology and an expert in movement disorders. Reich will be invested as the Prince Distinguished Professor in the fall.

Stewart Greenebaum, a long-time benefactor to the University of Maryland, has contributed \$1 million toward an endowed position for the director of the University of Maryland Marlene and Stewart Greenebaum Cancer Center. Combined with a larger donation he made recently to support the cancer center, this gift established a distinguished professorship. **Kevin J. Cullen, MD**, director of the cancer center and the program in oncology, will be invested this summer as the first Greenebaum Distinguished Professor. This is in addition to the Marlene and Stewart Greenebaum Professorship in the department of radiation oncology established several years ago and currently held by **Mohan Suntha, MD**.

Medical student scholarships have been an important element of fund

raising efforts this year, and several gifts have helped to advance this cause. Board of visitors member **Carolyn McGuire Frenkil** has contributed \$500,000 to endow a full scholarship, while a fellow board member, **Harry C. Knipp, '76**, has contributed \$50,000 for a scholarship fund in honor of his grandfather Herbert J. Clarke. Scholarships offer valuable support to the office of admissions in recruiting the best students, and both scholarships and endowed faculty positions are important elements of the medical school's fund raising campaign. 



Carolyn McGuire Frenkil


An Update on the Federal Estate Tax

On December 17, 2010, President Barack Obama signed into law the Tax Relief, Unemployment Insurance Reauthorization, and Job Creation Act of 2010 (TRA), which modifies the estate, gift and generation-skipping transfer (GST) taxes, and includes several other significant tax-related provisions. Under TRA, the estate, gift and GST tax rates are reduced to 35% for 2011 and 2012, and the estate, gift and GST tax exemptions are increased to \$5 million for 2011 and 2012. TRA extends the so-called Bush era tax cuts, perpetuating an environment of lowered federal income tax and capital gains tax rates, and introduces the concept of "portability" for the unused estate tax exemption of deceased individuals, for the next two years. The increased lifetime gifting opportunities and the wealth transfer issues related to portability are two TRA aspects that warrant further discussion.

Lifetime gifting is one of the most effective methods of decreasing potential transfer taxes. By reunifying the estate and the gift tax, and increasing the amount of the gift tax exemption from \$1 million to \$5 million for 2011 and 2012, TRA has greatly expanded the ability of individuals to make large gifts and thereby remove significant amounts of property and post-gift appreciation on that property from their estates. TRA enhances the wealth transfer opportunities for individuals that find the utilization of strategies such as grantor trust sales, grantor retained annuity trusts, qualified personal residence trusts, charitable lead and remainder trusts, annual exclusion gifts and life insurance owned in irrevocable life insurance trusts attractive relative to their financial situation and aspirations.

At first glance, TRA's portability provisions, under which the estate of the second spouse to die is permitted, subject to certain circumstances, to take advantage of the unused \$5 million tax exemption of the first spouse to die in 2011 and 2012, may appear to make traditional credit shelter trust planning unnecessary. However, a credit shelter trust may still offer advantages over portability by providing professional asset management and protection during the surviving spouse's life, protecting the expectancy of children from diversion by the surviv-

ing spouse (especially in cases of second marriages and blended families), sheltering the future growth in value and accumulated income from estate tax, and permitting the use of the predeceased spouse's GST tax exemption as portability applies only to the gift and estate tax exemption. Wills that contain credit shelter trust provisions, especially those utilizing a formula funding convention, need to be reviewed with respect to TRA related changes, but the notion that this method of wealth transfer has become obsolete is an inaccurate assessment.

Traditional estate planning continues to be relevant and necessary in a tax environment marked by continuing uncertainty and volatility. Unless Congress changes the current law, TRA will sunset in 2013; the estate, gift and GST tax exclusions will return to \$1 million and the marginal rate will increase to 55%. Some commentators have observed that the estate, gift and GST taxes are voluntary taxes as those that do not plan, will pay the tax. Although planning will not always completely eliminate the exposure to the estate, gift and GST taxes, proper planning can minimize these taxes. 



This column is prepared by Ken Pittman, a senior vice president and wealth planner at PNC Wealth Management. He provides fee-based wealth planning services and can be reached at 410-237-5324 or at kenneth.pittman@pnc.com

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1940s **1946: Robert E. Bauer** of Salt Lake City proudly reports the birth of his first great-granddaughter. Bauer retired last year from Pritikin Center & Spa after serving for 30 years as medical director. **1947: Pascal D. Spino**, a retired pediatrician in Greensburg, Pa., was one of 20 finalists for Citizen Service Before Self Honors from the Congressional Medal of Honor Foundation. Spino was nominated for what the foundation termed "a lifetime commitment to treating children—tens of thousands, many whose families cannot afford health care." Spino retired in 2008. In 1989, he was recognized as the pediatrician of the year by the Pennsylvania chapter of the Academy of Pediatrics and in 2007 was honored as one of Greensburg's citizens of distinction. **1948: James T. Welborn** of Lexington, N.C., recently celebrated his 87th birthday, as he and wife Lillian marked their 61st wedding anniversary. They celebrated the holiday season with three children, their spouses, six grandchildren, and two great-grandchildren.

1950s **1951: Benjamin D. Gordon** of Yarmouth Port, Mass., is revising a book of poetry as well as his book *Practical Guide for New Parents*, published in 1970. Gordon is a full-time caretaker for wife Ellen, restricting his extra-curricular activities. **1952: Richard A. Sindler** of Towson, Md., continues working part time, performing whole body CT scans in Rockville, while wife Vicki is selling residential real estate with Long & Foster. **1956: Charles Sanislow** of Midland, Mich., continues as medical director of vascular lab at Mid Michigan Medical Center where he interprets studies (ultra sound) and maintains lab certification as well as administrative duties. In his spare time he enjoys grandchildren, fishes, and is a tree farmer.

1960s **1961: Gerald A. Hofkin** of Towson, Md., surveys ambulatory health facilities throughout the country on behalf of the Accreditation Association for Ambulatory Health Care, Inc. He also continues part time in his gastro-

enterology practice. **Robert J. Myerburg** of Miami received a doctorate degree honoris causa from the University of Oulu in Finland. **David L. Rosen** of San Rafael, Calif., reports that his youngest daughter, in the second year of a postdoctoral in physics, had her first paper published. **1963: Stephen P. Cohen** of Baltimore retired on December 31, 2010, and has lots to do including golf, bridge, Spanish, and his memoir. **Edward C. Werner** of Washington, D.C., is looking forward to the 50th medical school reunion in 2013 and hopes his classmates are as well. He wishes everyone Happy New Year. **1964: Ann Dagon Kingsbury** of Lancaster, Va., is medical director of the Northern Neck Free Health Clinic in Kilmarnock. **1966: Joseph M. France Jr.**, of Ormond Beach, Fla., is a member of the board of directors for the Florida State University College of Medicine, where since 2006, he has served as clinical assistant professor of surgery. **Ernesto Rivera** of Baltimore is closing his office, but he will continue full time with the Franklin Square Hospital department of OB/GYN. He and wife Millie are proud grandparents of three. For the last four years, Rivera has been learning to play the Conga drums. **1968: Elliot S. Cohen** of Colorado Springs, Colo., is in his 31st year of psychiatric practice. In his spare time he enjoys skiing, biking, and hiking. **1969: Marvin J. Gordon** of Laguna Beach, Calif., is regional medical director for San Diego Health Net of California.

1970s **1970: Louis A. Shpritz** of Owings Mills, Md., retired in March. **1971: Robert E. Greenspan** of Alexandria, Va., is the 2011 recipient of the Baylor University John B. McGovern Annual Lectureship Award in History and Philosophy of Medicine. In addition, he appeared on the Discovery and Science channels discussing antique medical instruments. **Robert J. Neborsky** of Del Mar, Calif., is teaching techniques of short-term dynamic therapy for somatizing disorders in England, Sweden, and the Netherlands this spring. **Jane D. Steinberg** of Tamarac, Fla., reports that daughter Wendy married Ian Parker on New Year's Eve 2010,

while daughter Fawn is serving a rotating internship at Suncoast Largo Hospital after graduating from osteopathic medical school. **1972: Deborah Shlian** of Boca Raton, Fla., announces the release of her new thriller *Devil Wind*. A practicing physician and healthcare consultant, Shlian is author of five award-winning medical mystery/thrillers, three co-authored with husband **Joel**, '71. **1974: Charles P. Adamo** of Severna Park, Md., reports that youngest daughter Julie is an intern at the National Library of Medicine after receiving a master's degree in Library Science from the University of North Carolina. **1975: Patricia Falcao** of Needham, Mass., has added seven more letters to those which follow her name. In addition to FACOG, MPH, MBA, and CPE, in 2010 Falcao added CCHP (certified correction health physician) in association with her work as medical director of the Massachusetts Alcohol and Substance Abuse Center. She has also added MRO (medical review officer) in connection with work in urine drug toxicology as she continues tracking toward board certification in addiction medicine. **1976: Timothy E. Bainum** of Glenwood, Ariz., is chairman and CEO of Diamond Bank. **James E. Mark** of San Antonio reports that son Mark is a third-year medical student at Meharry Medical College. **James Novick** of Baltimore co-hosts a weekly radio talk show on WCBM 680. The medical program airing on Sundays is co-hosted by classmate **Joseph Zebley III** and Tanya Quille, PhD, and highlights current issues and events via interviews with local and national physicians. **1978: Stephen A. Valenti** and wife **Elizabeth M. Kingsley** of Annapolis, Md., are celebrating 27 years in the private practice of cardiology, Valenti at Howard County General Hospital, and Kingsley at Anne Arundel Medical Center. Daughter **Elizabeth Lechner**, '08, will begin a pulmonary/critical care fellowship at the University of Pittsburgh Medical Center in July, following completion of internal medicine residency training at Maryland. **1979: Bruce D. Behounek** is chief medical officer at LipoScience in Raleigh, N.C. **Bernard F. Kozlovsky** of Baltimore is enjoying himself as a medical officer in the

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health resources and services administration division of transplantation with the U.S. government. Son Chaim recently completed a physician's assistant program at St. John's University in Queens, N.Y.

Daughter Hinda, a critical-care nurse, is enrolled in a nurse anesthetist program at the University of Medicine and Dentistry of New Jersey. ♦ **Anthony Scialdone** of Pittsburgh completed a master's program in medical management at Carnegie-Mellon University. He is a member of the management team of Premier Health Care Services, a provider of emergency medicine and hospital staffing. Scialdone celebrates his 30th year of practice in EM.

1980s **1980: Charita Hoyle** of New York City, earned a master's degree in public health from the Columbia University Mailman School of Public Health. She is retired from the university after 23 years and reports that daughter Skye is a world traveler and honor roll student at Boston University. Son TS Michael is a sophomore at Winston Preparatory School. ♦ **Roger J. Robertson** of Chambersburg, Pa., reports that his son will start medical school at Maryland in the fall after a year as a service volunteer in Costa Rica. **1981: Samuel A. Yousem** of Pittsburgh is vice chair of pathology at the University of Pittsburgh School of Medicine with a career focus on pulmonary pathology. He and wife Penny have three children: twins Emilie and Bailey and son Jacob. **1982: Renu Garg** continues to enjoy her private pediatrics practice after 25 years in Houston. She and husband Steve report oldest daughter Brittany is a freshman at Baylor College of Medicine, while son Ryan is a senior at MIT where he plans to graduate summa cum

laude with a dual degree in mathematics and electrical engineering. Their youngest, Lauren is a high school freshman. Classmates are encouraged to contact Garg when visiting Houston. **1983:**

David P. Johnson of Sherwood, Oreg., traveled to Galmi Hospital in Niger last January on a medical mission. His daughter joined him to assist with the surgeries. Two of Johnson's three children were married last summer. **1985: Thomas B. Johnson** of Exeter, N.H., practices pediatric cardiology in Manchester. **1986: Stephen W. George** of West Friendship, Md., was voted in *Baltimore* magazine as a top doctor in pediatric rheumatology for the years 2008, 2009, and 2010. **1988: Stanley J. Shin** of Statesboro, Ga., has owned and operated a solo cardiology practice near Savannah for 14 years. ♦ **Raymond A. Wittstadt** of Glen Arm, Md., is an attending hand surgeon at the Curtis National Hand Center at Union Memorial Hospital and, since 1994, has served as director of its musician's clinic.

1990s **1990: Jeffrey Rosenfeld** and family live in Clovis, Calif. He is chief of neurology at UCSF-Fresno and professor of neurology at UCSF. **1996: Mollie Kelly Kauffman** of Seattle practices family medicine as a faculty member at the University of Washington. She and husband Jon have two children: Chuck, age eight, and Alice, age six. **1999: James L. Medina** and wife Stacie of Lancaster, Pa., announced the birth of Aubrey Lauren on June 7, 2010. She joins brothers Christian, age seven, and Adrian, age five.

2000s **2000: Joseph Herman** and wife Amy of Baltimore announce the birth of Andrew Joseph on December 10, 2010. **2001: J. Greg Hobelmann** has joined Father Martins Ashley in Havre de Grace, to develop an inpatient and outpatient multi-specialty program with emphasis on treating pain. He lives in Baltimore with wife Elizabeth and their three children. ♦ **Vladimir Ioffe**, wife Kecia, and children have relocated to Monkton, Md. **2002: Erin Gibbons** of Vancouver, Wash., works at the Urology Clinic of Southwest Washington, located outside of Portland. **2003: Todd W. Flannery** and wife Jacqueline live with children Quinn and Brooke in Pennington,

N.J. Flannery is a radiation oncologist with Princeton Radiation Oncology, which in 2012 is slated to open a proton center in Somerset, the first of its kind in New Jersey, New York, and Connecticut. **2004:** Christopher Hydorn of Columbia, S.C., is a pediatric orthopaedic surgeon at the Moore Orthopaedic Clinic. ✦ Christine and Willis Wu of Rocky River, Ohio, welcomed son Wesley on January 5; he joins sister Evelyn. Christine is a pediatrician for Rainbow Babies in Westlake, while Willis is set to begin an interventional cardiology fellowship at the Cleveland Clinic in summer following completion of general cardiology training. **2006:** William Kanner and wife Virginia of Charlottesville, Va., announce the birth of Cedric Alexander on August 21, 2010 at the University of Virginia Hospital. Kanner is the blood bank fellow and will be the dermatopathology fellow in 2011-2012. **2007:** Catherine Zorc and husband Josh Krotec of Wilmington, Del., announce the birth of James Patrick on October 11, 2010. **2008:** Brendan Bowman and wife Claire of Arlington, Va., announce the birth of Henry Evan, their first, in May 2010. Bowman will begin a nephrology fellowship at the University of Virginia in July. ✦ Michael Hornbecker of Zionsville, Ind., is joining Adult Medical Specialists in Lebanon this summer. He will be an employee of Witham Health Services and practice traditional inpatient and outpatient primary care in rural Indiana.

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2010: Thomas Reznik of Providence, R.I., was elected as a northeast region representative to the American College of Physicians Council of

Associates. Reznik is completing his first year of training in internal medicine at Brown University. 

Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Structure: The board consists of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and 13 reunion committees.

Membership: Annual dues are \$85. Dues are waived for emeritus members (graduated more than 50 years or have reached 70 years of age) and newly graduated alumni, and reduced to \$25 for alumni in training. Revenues support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base; produce the quarterly *Bulletin* magazine; stage social events for alumni and students (including the annual Reunion); administer the revolving student loan funds, and oversee conservation work on Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to the various departments and unrestricted support to the dean.

in memoriam

Edward S. Kallins, '34

Family Medicine
Bradenton, Fla.
January 1, 2011

Prior to medical school, Dr. Kallins earned a degree from the University of Maryland School of Pharmacy. Upon medical school graduation, he received training at Sinai Hospital and began a private practice in Baltimore. During World War II, Kallins enlisted in the U.S. Navy and graduated from the naval hospital in Philadelphia where he specialized in epidemiology and pathology. He later graduated from the Naval School of Tropical Medicine in Treasure Island, Calif. Kallins served in the Pacific Theater and participated in the first wave of the assault force on Okinawa. He later retired as a lieutenant commander with the U.S. Naval Reserve. Returning to Baltimore after the war, he resumed his practice and also served as company physician for the M.S. Levy Co., and was the State of Maryland's chief medical immigration officer. Kallins served on Maryland's faculty as an instructor and was assistant chief of the allergy clinic from 1946 to 1965. In 1962, he established Liberty Court Rehabilitation Hospital (now Northwest Hospital Center). He retired in 1985 and relocated to Bradenton, Fla. Kallins enjoyed opera, and he and wife Marie traveled the world on more than 40 cruises. In addition to his wife, Kallins is survived by four children, ten grandchildren, and two great-grandchildren.

Morris J. Nicholson, '36

Anesthesiology
Sun City, Ariz.
February 8, 2011

Dr. Nicholson received training at the Lahey Clinic in Boston and formally joined its staff in 1938. He served on the boards of the Massachusetts, New England, and American anesthesia societies and was also on the board of the International Anesthesia Research Society. Nicholson retired in 1976 and moved to Sun City where he was active in the Sun City Physicians Club, volunteering at the Westside Food Bank, fund raising for Boswell Hospital, and reading journals. He celebrated his 100th

birthday in December 2010. Nicholson is survived by wife Genevieve, three children, six grandchildren, and two great-grandchildren. He was preceded in death by his first wife Marjorie.

Lester A. Wall Jr., '41

Internal Medicine
Spring, Tex.
January 18, 2011

After graduation, Dr. Wall enlisted in the U.S. Army Air Forces, completing an internship at Grasslands Hospital in Westchester County, N.Y. Called to active duty in 1942, he served as a flight surgeon with the 66th Fighter Squadron of the 57th Fighter Group in North Africa, Sicily, and Italy. He received two Purple Hearts and a Bronze Star, and he was discharged with the rank of captain. Wall returned to Baltimore, completing residency training in internal medicine at Lutheran Hospital from 1945 to 1947 and then opening a private practice. He was an instructor at both Maryland and Johns Hopkins. After retirement in 1976, Wall continued working for a few years in the coronary step-down unit at St. Joseph Medical Center. In the late 1970s, he relocated to St. Petersburg, Fla., and spent the past year living with a daughter in Texas. Wall enjoyed the theater, opera, and attending Baltimore Symphony Orchestra concerts. In addition, he was a season ticket holder for the Baltimore Colts and enjoyed boating, fishing, and travel. Wall is survived by wife Bernice, two daughters, one son, seven grandchildren, and 29 great-grandchildren.

Daniel B. Lemen, '45

Internal Medicine
New York City
February 11, 2011

After an internship at the University of Colorado Hospital in Denver, Dr. Lemen joined the U.S. Navy where he spent the next 23 years, primarily in Virginia, treating servicemen and their families. He retired in 1964. Lemen was an avid reader of non-fiction, played piano, and once assembled a harpsichord. He also enjoyed cooking and baking his own bread. Lemen was a

member of the John Beale Davidge Alliance Silver Circle—the medical school's society for major donors.

Paul E. Frye, '46

Anesthesiology
Akron, Ohio
August 28, 2010

Dr. Frye practiced anesthesiology until retirement in 1986. He was a past president of the Ohio Society of Anesthesiology. The anesthesiology library at Akron General Medical Center of Northeastern Ohio Medical School was named in his honor. Frye enjoyed gardening and travel. He is survived by wife Mary, three children, six grandchildren, and six great-grandchildren.

Marion C. Insley Jr., '48

Otolaryngology
Conway, S.C.
December 15, 2010

Dr. Insley interned at South Baltimore General Hospital and received residency training at Beckley Hospital in Beckley, West Virginia. He received additional training at the Presbyterian Hospital in New York City and Geisinger Hospital in Danville, Pennsylvania. During his military service in the U.S. Air Force, Insley served as assistant chief of the ear, nose and throat service at Wright Patterson Field in Dayton, Ohio. After the military, he practiced privately in Harrisburg and held appointments as chief of otolaryngology at Polyclinic Hospital where he also served as president of the medical and dental staff, assistant chief at Geisinger Hospital, and clinical associate professor of surgery at Hershey Medical Center. Insley was a 32nd Degree Mason with the Zembo Temple. He enjoyed golf and in retirement played as many as 300 games a year. He was preceded in death by wives Doris and Janet and is survived by four children and seven grandchildren.

Burton V. Matthews, '48

Surgery
Grosse Ile, Mich.
January 24, 2011

Dr. Matthews was a general surgeon who served as chief of staff at Henry Ford

in memoriam

Wyandotte Hospital. He later specialized in the treatment of breast cancer and helped found one of the first breast cancer clinics in his area. He enjoyed golf, boating, and international travel. In addition, Matthews was a private pilot. He was preceded in death by wife Barbara.

Willard F. Kindt, '51

Family Medicine

Allentown, Pa.

November 21, 2010

Allentown Hospital was the site of Dr. Kindt's training. For 36 years he was a general practitioner and for a period served on the board of Lehigh Valley Hospital. He retired in 1988. Kindt was preceded in death by wife Eleanor and is survived by four children, 15 grandchildren, and three great-grandchildren.

John J. Darrell, '55

Family Medicine

Owings Mills, Md.

December 23, 2010

Dr. Darrell received training in internal medicine at Mercy Hospital and also trained as a flight surgeon. He devoted his career to family medicine, retiring in 1993. He enjoyed tennis, golf, sailing, walking, and coaching springboard diving. In retirement he studied Spanish, French, and Greek while holding several volunteer jobs. Darrell is survived by wife Mary, two sons including **John C., '82**, one daughter, and seven grandchildren.

Adrian S. Weyn, '58

Cardiology

Glen Mills, Pa.

January 28, 2011

Fred D. Brown, '59

Pediatrics

Vero Beach, Fla.

December 28, 2010

Upon graduation, Dr. Brown interned and received residency training in pediatrics at St. Vincent's University Hospital in Jacksonville, Fla. For the next two years he served as chief of pediatrics at Homestead Air Force Base in Homestead, Fla.,

before beginning private practice in Miami. In 1980, he relocated his practice to Okeechobee and, in 1995, joined Florida Health Center as a staff pediatrician. Appointments included clinical associate professor of pediatrics at the University of Miami School of Medicine, senior attending at Miami Children's Hospital, and chief of pediatrics at Miami Baptist Hospital. He was elected president of the Greater Miami Pediatric Society in 1975. Brown is survived by wife Barbara, five children, and 12 grandchildren.

Note to Class of 1966

Robert B. Bokar, '66, passed away on March 23, 2010 (see *Medicine Bulletin* Summer 2010, Vol 95, No. 1). He was a board member of the Children's Relief Fund since it began in 1991. A college scholarship has been established in his memory, awarded on the merits of volunteerism and humanitarianism towards children with special needs. To contribute, make checks payable to The Children's Relief Fund, c/o Rose Fotia, 14 Wedgefield Dr., Hilton Head, SC 29926.

Ira L. Fetterhoff, '67

Psychiatry

Solomons, Md.

March 5, 2011

In addition to a medical degree, Dr. Fetterhoff was a graduate of the Philadelphia Divinity School and served many churches in the Diocese of Maryland. He was a ninth-generation physician and practiced privately in Baltimore, Hagerstown, and Cumberland. Fetterhoff served as court psychiatrist for Washington County district and circuit courts and was on the staff at Washington County Hospital in Hagerstown where he sat on its executive committee. He also served on the boards of Calvert Hospice and Smile, Inc., and he was a member of AAUW and the League of Women Voters. In 2009, a book entitled *A Life of Devotion*, written by Margaret W. Penn, PhD, was a biography about Fetterhoff. He is survived by wife Barbara and one daughter.

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Bruce J. Rounsaville, '74

Psychiatry

Woodbridge, Conn.

January 9, 2011

Upon graduation, Dr. Rounsaville received residency training and a fellowship in epidemiology and psychiatry at the Yale School of Medicine. He joined the faculty at Yale where he rose to the rank of professor of psychiatry, director of the VA Mental Illness Research Education and Clinical Center at the VA Connecticut Healthcare System, and director of the psychotherapy development research center and clinical scientist training program in substance abuse. Early on, Rounsaville worked to reconcile psychotherapy treatments with medication-based procedures for depression, which at the time each operated in isolation. He later turned his attention to reconciling these two schools of treatment to addiction and substance abuse, developing one of the top substance abuse research programs in the world. Rounsaville was author of six books and more than 350 papers and chapters. He served in advisory roles for the National Institute on Drug Abuse and was a member of the work group of the American Psychiatric Association that revised the psychiatric diagnostic manual. He was assistant editor of *Addiction* and served on the editorial board for several other journals. He is survived by wife Elizabeth and two children.

Charles N. Schoenfeld, '76

Emergency Medicine

Baltimore

December 10, 2010

Dr. Schoenfeld interned at Union Memorial Hospital in Baltimore before joining the U.S. Public Health Service and serving at the Rocky Boy's Indian Reservation in Montana. He returned to Union Memorial in 1978 to complete residency training in internal medicine and emergency

in memoriam

medicine. He was an attending physician in emergency medicine at Dorchester General Hospital in Cambridge and Memorial Hospital in Easton during the 1980s. Schoenfeld served as a volunteer medical director in Talbot County and developed an advanced life-support program that both elevated the level of emergency care and reduced deaths related to heart attack. He was honored by the community for his services. He joined the Johns Hopkins Health System in 1989 as an attending physician and vice chair of emergency medicine at Bayview. His role included supervising residents, and he was recognized for his teaching by earning teacher of the year honors. Schoenfeld retired in 2008. He enjoyed woodworking and sailing. Survivors include wife Carol, one son, one stepson, and one stepdaughter. Two earlier marriages ended in divorce.

Peter J. Golueke, '80

Vascular Surgery

Baltimore

February 21, 2011

Upon medical school graduation, Dr. Golueke received residency training at Kings County Hospital Center in Brooklyn, N.Y. This was followed by fellowship training in vascular surgery at Baylor University Medical Center in Dallas from 1984 to 1985. Golueke returned to Baltimore, joining the faculty at Johns Hopkins as an assistant professor in vascular surgery and chief of vascular surgery at Johns Hopkins Bayview Medical Center. He left Johns Hopkins for private practice in 1989, co-founding Vascular Surgery Associates, now one of the largest vascular surgery groups in the Mid-Atlantic region. Appointments included chief of vascular surgery at Greater Baltimore Medical Center where he also

served as director of the hospital's wound care center and hyperbaric medicine unit. He was an avid reader of historical, political, and religious publications, and he enjoyed sailing, fishing, golf, and travel. Golueke was a member of the Elm Society of the John Beale Davidge Alliance, the medical school's society for major donors. Survivors include wife Valerie, three sons and one daughter.

Janet Williams-Guest, '83

Child Psychiatry

West Hartford, Conn.

December 24, 2010

Yale University was the site of Dr. Williams-Guest's training which included serving as chief resident in her final year. Most recently she served as medical director for the State of Connecticut Department of Children and Families. Board certified in adult, child & adolescent, and forensic psychiatry. Williams-Guest was president of the Child Health and Development Institute of Connecticut and served on the faculties at the University of Connecticut and Yale University Medical School. She was a member of the state's psychiatric security review board as well as clinician and consultant to countless child agencies in Connecticut. Williams-Guest was an ordained minister of the First Church of the Living God in Hartford and a facilitator of its marriage fellowship. Survivors include husband Reverend Hanson Guest, Esq., two sons, one daughter, one step-daughter, and two step-grandchildren.

Faculty

Elizabeth (Lisa) Kimbrough, PhD, MPH

Assistant Professor, Center for Integrative Medicine

Baltimore

January 3, 2011

From the late 1980s until the early 2000s, Dr. Kimbrough studied epidemiological issues in Nepal. She assisted with studies conducted by the United States Agency for International Development and Johns Hopkins University. These included the prevention of malnutrition, the impact of maternal supplementation on early infant



Alignment

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mortality rates, and the impact of Vitamin A supplementation on childhood mortality and morbidity. Nationally and internationally, Kimbrough earned a reputation as a leader in research of mind/body medicine. She authored and co-authored more than 75 publications and in 2008–2009 served on the review panel of five peer-reviewed journals. Research projects included studying the effectiveness of mindfulness-based stress reduction (MBSR) and meditation to help childhood abuse survivors, persons suffering from depression, and severe rheumatoid arthritis. She worked closely with Brian Berman, MD, professor department of family & community medicine, and director, center for integrative medicine, to develop a collaborative relationship with Chinese University of Hong Kong. In recognition of her research, Kimbrough received many awards including the Francisco J. Varela Memorial Grant Award from the Mind and Life Institute and the George Family Foundation New Researcher Award.

M. Jane Matjasko, MD

Chair, Department of Anesthesiology
Baltimore
January 10, 2011

Dr. Matjasko was born in Natrona Heights, Pa., and was a 1964 magna cum laude graduate of Mercyhurst College in Erie. In 1968, she graduated from the Woman's Medical College of Pennsylvania (now Drexel University School of Medicine), before coming to Maryland for an internship in medicine, residency training in anesthesiology, and fellowship. She joined the faculty in 1972 and was elevated to acting chair of the department in 1987 after the retirement of **Martin Helrich, MD**. Matjasko served as professor and chair until retirement in 2005. During her tenure she trained more than 300 residents and fellows, and the department was ranked as high as seventh in research grants among all public and private medical schools. She became a national and international leader in the field, serving as examiner, director, and president of the American Board of Anesthesiology, and she was active in the American Society of Anesthesiologists.

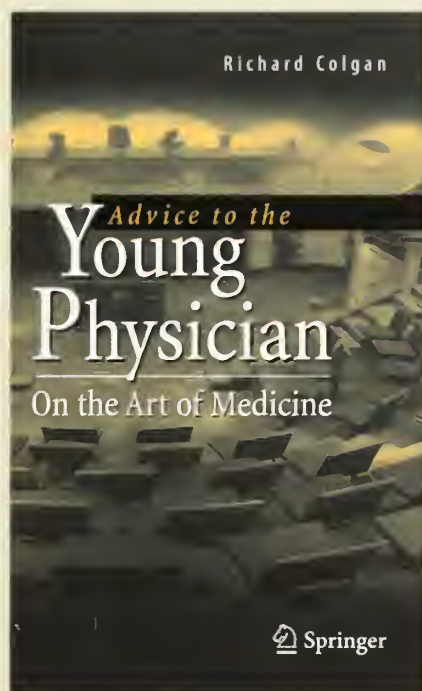
American Board of Medical Specialties, Association of University Anesthesiologists, Accreditation Council for Graduate Medical Education, Society of Neurosurgical Anesthesia and Critical Care, and the Association of American Medical Colleges. In addition to numerous articles, book chapters, and abstracts, Matjasko authored *Clinical Controversies in Neuroanesthesia and Neurosurgery*. Shortly after retirement she endowed two professorships at Maryland, the Matjasko Professorship for Research in Anesthesiology and the Matjasko Professorship for Education in Anesthesiology. She is survived by husband Shao Huang Chiu, MD, and son **David Chiu, '98**

Margaret "Meg" Zupancic, PhD

Fellow, Institute for Genome Sciences
Baltimore
October 7, 2010

Dr. Zupancic graduated magna cum laude from Wesleyan University in Middletown, Conn. She received a masters degree from

the University of Wisconsin before managing a laboratory at the University of California, Berkeley. Zupancic earned her PhD in biochemistry from the Johns Hopkins School of Medicine in 2009. At the time of her death she held a post-doctoral fellowship at Maryland's institute for genome sciences, where she was participating in research into how the human microbiome interacts with the genetic bases of obesity. She and her colleagues analyzed the gut bacterial communities of lean and obese individuals in the Old Order Amish of Lancaster County, Pa. Initially, the researchers found no correlation between the composition of the gut bacteria and obesity, but when they factored in the genetic makeup of the participants, certain patterns began to emerge. This past May, Zupancic generated a great deal of press coverage for the school after presenting the group's findings at the 110th general meeting of the American Society for Microbiology. Zupancic is survived by husband Bill Vinje and two sons. ☞



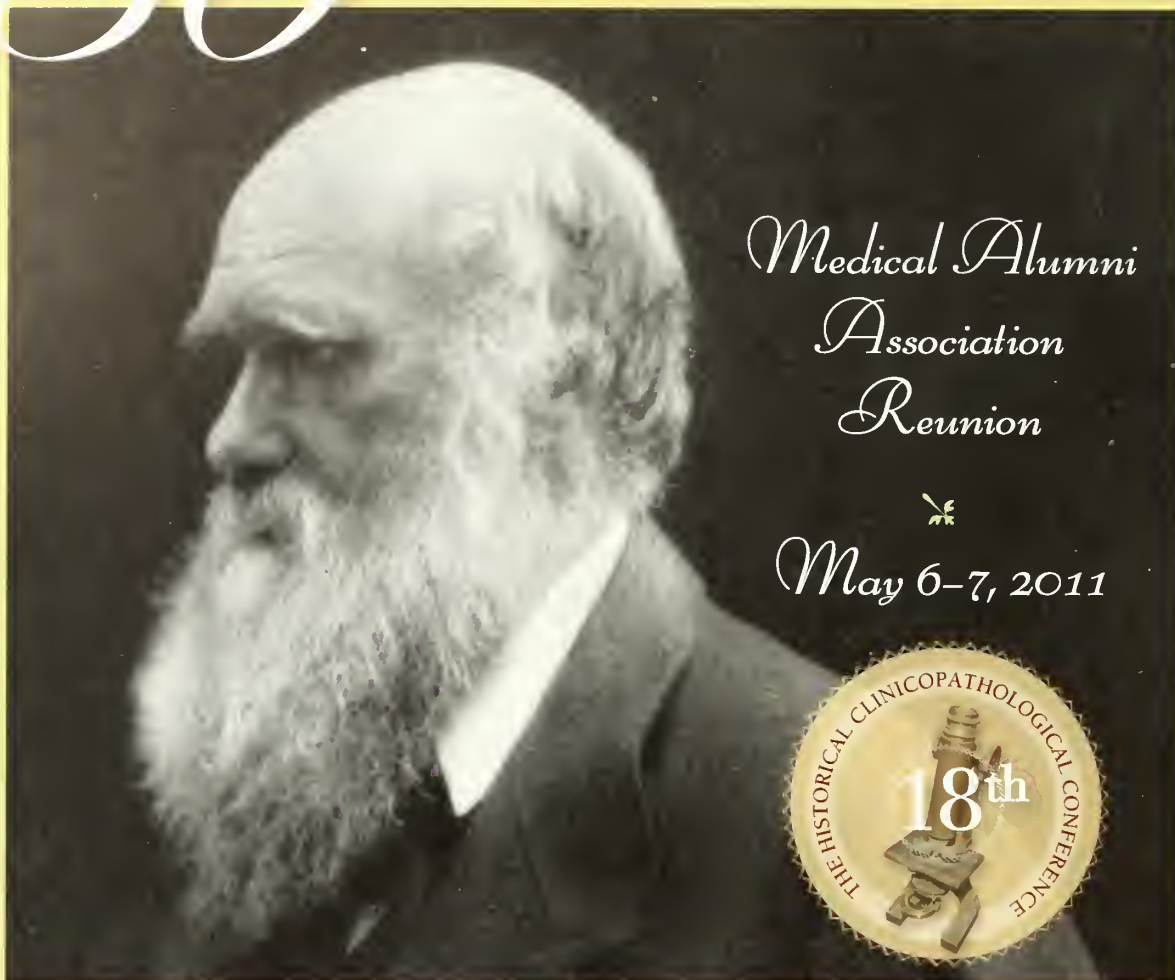
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Written by Richard Colgan, MD, *Advice to the Young Physician* reveals how to make the transition from technician to healer as taught by some of medicine's greatest teachers. Colgan is an associate professor at the University of Maryland School of Medicine and director of undergraduate education in the department of family and community medicine.

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136th Reunion



Medical Alumni Association Reunion

May 6-7, 2011



Friday, May 6

8:30-10:30 am	Open House, Check-in & Continental Breakfast
9:00-9:45 am	Tour Maryland's Hospital: A Quarter-Century After Privatization
10:00-11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:15 am-1:15 pm	Harry & Vivian Kramer MAA Luncheon & Business Meeting
1:30-3:30 pm	Afternoon Check-in, Davidge Hall
1:30-3:00 pm	18th Historical Clinicopathological Conference
3:30-4:30 pm	School of Medicine Tour
6:30-9:30 pm	The Happening at the Harbor, Baltimore Museum of Industry

Saturday, May 7

8:30 am-1:30 pm	Open House & Check-In
8:30-10:00 am	Continental Breakfast, Davidge Hall
9:30-10:30 am	Campus Walking Tour
10:45-11:45 am	Restoring Davidge Hall: An Update
11:30 am-2:00 pm	Complimentary Picnic, Davidge Hall
12:15-1:15 pm	200 Years of Medicine at Maryland: A Historical Perspective
1:30-4:00 pm	Excursion to Fort McHenry
Afternoon/Evening	Class Reunions (years ending in "1" and "6")

NOTE: An amendment to the bylaws will be considered at the annual business meeting on May 6, waiving membership for alumni who have been graduated fewer than five years or continue in training.



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Dr. Frank C. Bressler, a member of the class of 1885, left \$1.2 million in a bequest to benefit the School of Medicine at his death in 1935. Dr. Bressler's bequest, realized during the troubled time of the Great Depression, provided the School with a truly exceptional sum for the day.



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